## **Drinking Water Surveillance Program**

# METRO TORONTO EASTERLY WATER TREATMENT PLANT

**Annual Report 1989** 



# METRO TORONTO (EASTERLY) WATER TREATMENT PLANT

#### DRINKING WATER SURVEILLANCE PROGRAM

**ANNUAL REPORT 1989** 

Cette publication technique n'est disponible qu'en anglais.

January 1991



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#### EXECUTIVE SUMMARY

#### DRINKING WATER SURVEILLANCE PROGRAM

# METRO TORONTO (EASTERLY) WATER TREATMENT PLANT 1989 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The Metro Toronto (Easterly) Water Treatment Plant is a direct filtration plant that treats water from Lake Ontario. The process consists of coagulation, flocculation, filtration, disinfection and fluoridation. This plant has a design capacity of 550 x 1000m³/day and in conjunction with the R.C. Harris and R.L. Clark plants, serves a population of approximately 2,333,000 people.

Water samples from the raw, treated and two distribution system sites were taken on a monthly basis and analyzed for approximately 180 parameters. Parameters were divided into the following groups: Bacteriological, Inorganic and Physical (Laboratory Chemistry, Field Chemistry and Metals) and Organic (Chloroaromatics, Chlorophenols, Pesticides and PCB, Phenolics, Polynuclear Aromatic Hydrocarbons, Specific Pesticides and Volatiles). Specific Pesticides and Chlorophenols were analyzed in June and November only.

A summary of results is shown in Table A.

Inorganic and Physical parameters were below any applicable health related ODWOs.

Of a total of approximately 110 Organic parameters tested for on a monthly basis, none exceeded health related guidelines.

During 1989 the DWSP sampling results indicated that the Easterly Water Treatment Plant produced good quality water at the plant and this quality was maintained in the distribution system.

TABLE A

DRINKING WATER SURVEILLANCE PROGRAM METI

METRO TORONTO (EASTERLY UTP)

SUMMARY TABLE BY SCAN

SCAN	TESTS	RAW POSITIVE XPOSITIVE	KPOS1T1VE	TR TESTS	TREATED TESTS POSITIVE XPOSITIVE	ITIVE	S1 TESTS	SITE 1 TESTS POSITIVE XPOSITIVE		S) TESTS	SITE 2 TESTS POSITIVE XPOSITIVE	ITIVE
												•
BACTERIOLOGICAL	35	27	1	36	2	2	33	4	12	30	2	9
CHEMISTRY (FLD)	36	38	100	29	8	88	125	111	88	108	8	88
CHEMISTRY (LAB)	252	<u>\$</u>	78	252	194	92	907	360	88	369	330	86
METALS	288	161	55	288	152	52	517	287	55	7.00	271	22
CHLOROAROMATICS	168	0	0	168	0	0	154	0	0	140	0	0
CHLOROPHENOLS	12	0	0	12	0	0	•		•	•		
РАН	191	0	0	191	0	0	•		•	•		
PESTICIDES & PCB	807	0	0	408	0	0	309	0	0	288	0	0
PHENOL ICS	12	•	20	12	æ	8	•		•	•		
SPECIFIC PESTICIDES	53	0	0	26	0	0	Ξ	0	0	9	0	0
VOLATILES	348	2	-	348	67	14	319	77	13	261	36	13
	1803	727		1838	127		1874	806		1676	735	

NO KNOWN HEALTH RELATED GUIDELINES WERE EXCEEDED

TOTAL

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE A "." INDICATES THAT NO SAMPLE WAS TAKEN

#### DRINKING WATER SURVEILLANCE PROGRAM

# METRO TORONTO (EASTERLY) WATER TREATMENT PLANT 1989 ANNUAL REPORT

#### INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored. The DWSP was initiated at the Metro Toronto (Easterly) Water Treatment Plant in July of 1986. Annual reports were published for 1986 (ISBN 0-7729-2553-4), 1987 and 1988 (ISSN 0840-5166).

This report contains information and results for 1989.

In order to accommodate the increasing number of plants on the DWSP and to facilitate the timely completion of the 1989 annual reports, plants with two or more years of published data will receive an abbreviated annual report. This report maintains the same general format as in previous years but does not include a comprehensive discussion of results. For more detail on the parameters analyzed and discussion of results, consult the 1987 and 1988 reports.

#### PLANT DESCRIPTION

The Easterly Water Treatment Plant is a direct filtration plant which treats water from Lake Ontario. The process consists of flocculation, filtration, disinfection coagulation, fluoridation. Superchlorination is used for disinfection and for taste and odour control. Sulphur dioxide is used as dechlorinator and ammoniation is used to produce a long-lasting chloramine residual in the distribution system. This plant has a rated capacity of 550 x 1000m<sup>3</sup>/day and daily flows ranging from 192 x 1000m<sup>3</sup>/day to 518 x 1000m<sup>3</sup>/day. The Easterly Water Treatment Plant in conjunction with the R.C. Harris and R.L. Clark plants (and the Toronto Island plant during the summer months) serves a population of approximately 2,333,000 people.

The plant location is shown in Figure 1. Plant process details, in a block schematic, are shown in Figure 2. General plant information is presented in Table 2.

#### SAMPLING AND ANALYSIS

Plant operating personnel perform analyses on parameters for process control (Table 1).

The Easterly Water Treatment Plant raw and treated water and two sites in the distribution system were sampled for approximately 180 parameters on a monthly basis. The Specific Pesticides and Chlorophenols scans were sampled for in June and November only. Polynuclear Aromatic Hydrocarbons and Phenolics are only analyzed

## FIGURE 1

# DRINKING WATER SURVEILLANCE PROGRAM SITE LOCATION MAP

#### **EASTERLY WATER TREATMENT PLANT**



Figure 2

METRO TORONTO (EASTERLY) WATER TREATMENT PLANT

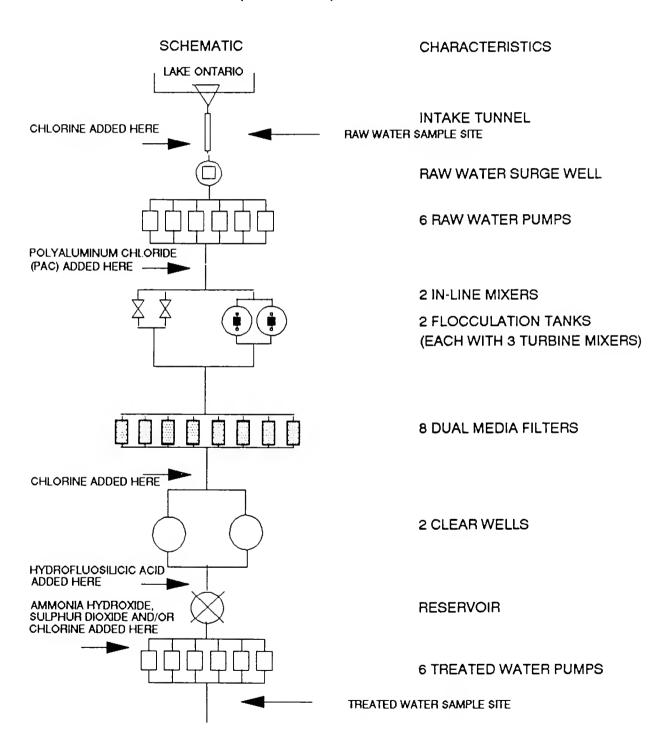


TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

IN-PLANT MONITORING METRO TORONTO (EASTERLY) WTP 1989

PARAMETER		LOCATION	FREQUENCY
Aluminum		Treated water	daily
Ammonia		Raw water After filters Treated water	every 2hrs every 2hrs every 2hrs
Chlorine residual -	free	After clearwell After reservoir After filters After prechlorination Treated water	continuous continuous continuous continuous continuous
Colour		Raw water After filters Treated water	daily daily daily
рН		Raw water Treated water	continuous daily daily
Taste and odour		After filters Treated water	hourly hourly
Temperature		Raw water	continuous
Turbidity		Raw water After filters Treated water	continuous continuous continuous

#### TABLE 2

# DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT GENERAL INFORMATION

#### METRO TORONTO (EASTERLY) WATER TREATMENT PLANT

LOCATION: 201 COPPERFIELD RD

WEST HILL, ONTARIO

M1E 4S1

(416-392-2574)

SOURCE: RAW WATER SOURCE - LAKE ONTARIO

RATED CAPACITY: 550 (1000 M3/DAY)

OPERATION: MUNICIPAL

PLANT SUPERINTENDENT: W. RIDDOCK

MINISTRY REGION: CENTRAL

DISTRICT OFFICER: D. HOGG

MUNICIPALITY SERVED	POPULATION
CITY OF TORONTO	615,000
CITY OF ETOBICOKE	298,490
CITY OF NORTH YORK	556,308
CITY OF SCARBOROUGH	461,957
CITY OF YORK	133,856
BOROUGH OF EAST YORK	97,679
REGION OF YORK (SOUTH)	170,000

for in the raw and treated water at the plant. As of August the triazine pesticides were only analyzed in the raw and treated water. Laboratory analysis was conducted at the Ministry of the Environment facilities in Rexdale, Ontario.

#### RESULTS

Field Chemistry measurements were recorded on the day of sampling and were entered onto the DWSP data base as submitted by plant personnel.

Table 3 contains information on the sample day retention time, flow rate and treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analyzed for by parameter and by water type. The number of times that a positive or trace result was detected is also reported.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 lists all parameters analyzed in the DWSP.

Associated guidelines and detection limits are also supplied on both tables. Parameters are listed alphabetically within each scan.

#### DISCUSSION

#### General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWOs) as defined in the 1984 publication (ISBN 0-7743-8985-0). The Province of Ontario has health related and aesthetic objectives for 49 parameters, which are currently under review. When an ODWO is not available guidelines/limits from other agencies are consulted. The Parameter Listing System (PALIS) recently published (ISBN 0-7729-4461-x) by the MOE catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Many of the compounds detected are naturally occurring or are treatment by-products.

IN THIS REPORT, DISCUSSION IS LIMITED TO THE TREATED AND DISTRIBUTED WATER AND ADDRESSES ONLY THOSE PARAMETERS WITH CONCENTRATIONS ABOVE GUIDELINE VALUES AND ORGANICS WITH DETECTED POSITIVE RESULTS.

Results for treated and distributed water indicate that no applicable health related guidelines were exceeded.

#### **Bacteriology**

#### Standard Plate Count

The ODWO for Standard Plate Count of 500 counts/mL (indicating some deterioration) was exceeded, once in the Site 2 water in August.

#### Inorganic and Physical Parameters

#### Ammonium

The Total Ammonium levels are high, not as a result of naturally occurring ammonia (eg. from sewage pollution) but from the anhydrous ammonia added in the treatment process. The ammonia is added after post-chlorination to provide a long lasting combined chlorine (chloramine) residual in the distribution system. Substantial free chlorine residuals were present in the treated water in September, October and November. While the European Economic Community has an aesthetic guideline of .05 mg/L, the Maximum Admissible Concentration is .50 mg/L and is set as a result of the concern for potential sewage pollution and its detection.

#### Aluminum

The plant operational guideline of 100  $\mu g/L$  as Al in the water leaving the plant was exceeded four times in the treated water.

#### Organic Parameters

#### Trihalomethanes

Trihalomethanes (THMs) are acknowledged to be produced during the water treatment process and will always occur in chlorinated surface waters. THMs are comprised of Chloroform, Chlorodibromomethane and Dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs. All Total THM occurrences, ranging from 13.7 to 25.2  $\mu$ g/L, were well below the ODWO of 350  $\mu$ g/L.

#### CONCLUSIONS

The Metro Toronto (Easterly) Water Treatment Plant for the sample year of 1989 produced good quality water at the plant as assessed by the results for parameters analyzed in DWSP and this quality was maintained in the distribution system.

Raw and treated water quality for 1986 through to 1989 has remained consistent.

No health related guidelines, for organic or inorganic parameters, were exceeded.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) SAMPLE DAY CONDITIONS 1989

	POST-CHLORINATION FLUORIDATION DECHLORINATION CHLORAMINATION $1^{\text{-}}$ $1^{\text{-}}$ $1^{\text{-}}$ ANHYDROUS NH $_3$	.19	.21	.20	.16	.16	.16	.17	.17	.16	.17	.16	.17
SAGES (MG/L)	N DECHLORINAT	.37	1.87	.24	1.02	.25	.22	.92	.82	1.10	.18	.20	.20
TREATMENT CHEMICAL DOSAGES (MG/L)	FLUORIDATION H <sub>2</sub> SiF <sub>6</sub>	1.04	1.05	.95	1.04	86.	66.	1.02	1.00	1.03	1.03	66.	1.11
TREATMEN	POST-CHLORINATION	.95	1.73	.71	1.71	.82	.75	1.77	1.86	1.77	.78	.58	99.
	COAGULATION PAC C	.68	.74	69.	.68	.67	.70	.78	1.17	1.18	.68	.54	.57
SNO	PRE-CHLORINATION COAGULATION CI' C	.80	.80	.80	.80	.80	.80	.80	.80	.80	.80	.80	.80
SAMPLE DAY CONDITIONS	FLOW (1000m <sup>3)</sup>	389.0	360.0	•	380.0	•	501.0	518.4	343.6	389.0	389.0	376.0	192.0
SAMPLE I	DELAY * TIME (Hrs)	6.4	6.5	6.5	7.5	0.	5.0	4.8	7.2	6.4	6.4	9.9	13.0
	DATE	JAN 17	FEB 21	MAR 21	APR 18	MAY 16	JUN 20	JUL 18	AUG 22	SEP 19	OCT 17	NOV 21	DEC 18

\* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM EASTERLY

SUMMARY TABLE OF RESULTS (1989)

			2					1					
SCAN	PARAMETER	TOTAL	TOTAL POSITIVE TRACE	TRACE	TOTAL POSITIVE TRACE	SITIVE TI		TOTAL POSITIVE TRACE	SITIVE T	RACE	TOTAL POSITIVE TRACE	ITIVE T	RACE
BACTERIOLOGICAL	FECAL COLIFORM MF	Ξ	5	0	•								:
	STANDRO PLATE CNT MF	•	•	•	12	7	0	F	7	0	<b>£</b>	-	0
	TOTAL COLIFORM MF	12	1	0	12	0	0	1	0	0	10	-	0
	T COLIFORM BCKGRD MF	12	=	0	12	0	0	1	0	0	10	0	0
*TOTAL SCAN BACTERIOLOGICAL	RIOLOGICAL	35	72		%	2	0	33	4	0	30	2	0
*TOTAL GROUP BACTERIOLOGICAL	ER I OLOGI CAL	35	27	0	8	~	0	33	4	0	30	7	0
CHEMISTRY (FLD)					12	12	0	22	22	0	18	18	0
	FLO CHLORINE FREE	•	•	•	7	9	0	15	-	0	12	0	0
	FLD CHLORINE (TOTAL)	•	•	•	12	12	0	22	22	0	8	18	0
	FLO PH	12	12	0	12	12	0	25	25	0	20	50	0
	FLO TEMPERATURE	12	12	0	12	12	0	25	22	0	2	20	0
	FLO TURBIOITY	12	12	0	12	12	0	22	22	0	50	20	0
*TOTAL SCAN CHEMISTRY (FLD)	STRY (FLD)	36	36	0	29	8	0	125	111	0	108	8	0
CHEMISTRY (LAB)	ALKALINITY	12	12	0	12	12	0	22	22	0	20	20	0
	CALCIUM	12	12		12	12	0	22	25	0	2	20	0
	CYANIDE	12	0	0	12	0	0	Ξ	0	0	10	0	0
	CHLORIDE	12	12		12	12	0	22	22	0	02	20	0
	COLOUR	12	-	=	12	0	12	22	0	25	2	0	20
	CONDUCTIVITY	12	12	0	12	12	0	22	22	0	50	20	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM EASTERLY

SUMMARY TABLE OF RESULTS (1989)

		SITE											
SCAN	PARAMETER	TOTAL	RAW POSITIVE TRACE	TRACE	TREATED TOTAL POSIT	TREATED TOTAL POSITIVE TRACE		SI TOTAL P	SITE 1 TOTAL POSITIVE TRACE		SITE 2 TOTAL POSITIVE TRACE	2 ITIVE 1	RACE
CHEMISTRY (LAB)	FLUORIDE	12	12	0	12	12	0		22	0	20	8	0
	HARDNESS	12	12	0	12	12	0	22	25	0	20	20	0
	IONCAL	12	12	0	12	12	0	22	25	0	50	20	0
	LANGELIERS INDEX	12	12	0	12	12	0	21	21	0	19	19	0
	MAGNESIUM	12	12	0	12	12	0	22	25	0	20	20	0
	NO 100S	12	12	0	12	12	0	22	25	0	20	20	0
	AMMONIUM TOTAL	12	9	-	12	12	0	22	25	0	20	20	0
	NITRITE	12	M	٥	12	0	12	22	Ξ	=	70	12	80
	TOTAL NITRATES	12	12	0	12	12	0	22	25	0	70	20	0
	NITROGEN TOT KJELD	12	12	0	12	12	0	22	25	0	20	20	0
	Н	12	12	0	12	12	0	22	22	0	70	20	0
	PHOSPHORUS FIL REACT	12	0	9	12	~	7	•	•			•	•
	PHOSPHORUS TOTAL	12	•	M	12	-	Ξ			•		•	•
	SULPHATE	12	12	0	12	12	0	22	25	0	20	20	0
	TURBIOITY	12	12	0	12	10	7	22	50	7	50	4	-
*TOTAL SCAN CHEMISTRY (LAB)	, (LAB)	252	<u>\$</u>	30	252	194	77	907	360	35	369	330	59
METALS	SILVER	12	0	~	12	0	2	22	0	^	20	0	4
	ALUMINUM	12	12	0	12	12	0	22	25	0	20	50	0
	ARSENIC	12	٥	M	12	=	-	22	18	4	20	14	9
	BARIUM	12	12	0	12	12	0	22	22	0	50	50	0
	BORON	12	12	0	12	12	0	22	25	0	20	50	0
	BERYLLIUM	12	0	∞	12	0	7	22	0	9	20	0	9

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM EASTERLY

SUMMARY TABLE OF RESULTS (1989)

		SITE	RAW		TREATED	TED		S	SITE 1		SITE 2		
SCAN	PARAMETER	TOTAL P	POSITIVE TRACE	TRACE	TOTAL POSITIVE TRACE	SITIVE 1	RACE	TOTAL P	TOTAL POSITIVE TRACE	ACE	TOTAL POSITIVE	IVE T	TRACE
METALS	CADMIUM	12	0	7	12	0	ъ	22	0	^	20	0	•
	COBALT	12	0	12	12	0	=	22	0	25	50	0	18
	CHROMIUM	12	٥	m	12	٥	7	22	16	7	50	12	9
	COPPER	12	12	0	12	12	0	22	22	0	50	19	-
	IRON	12	0	10	12	0	9	22	0	13	50	М	17
	MERCURY	12	-	m	12	0	Ŋ	1	0	m	5	0	7
	MANGANESE	12	12	0	12	7	9	22	9	16	20	20	0
	MOLYBDENUM	12	12	0	12	12	0	22	22	0	20	20	0
	NICKEL	12	2	٥	12	7	10	22	=	Ξ	20	9	9
	LEAD	12	10	7	12	12	0	22	22	0	50	19	-
	ANTIMONY	12	=	-	12	=	-	22	21	-	50	19	_
	SELENIUM	12	0	4	12	0	œ	22	0	18	20	0	14
	STRONTIUM	12	12	0	12	12	0	22	22	0	20	20	0
	TITANIUM	12	Ξ	-	12	=	-	22	19	m	20	8	7
	THALLIUM	12	0	~	12	0	4	22	0	7	50	0	7
	URANIUM	12	Ξ	-	12	=	-	22	20	7	20	8	7
	VANADIUM	12	0	12	12	0	12	22	0	22	20	0	20
	ZINC	12	12	0	12	=	<b>-</b>	25	22	0	50	5	-
*TOTAL SCAN METALS		288	161	92	288	152	85	517	287	150	027	271	130
*TOTAL GROUP INORGANIC & PHYSICAL	NIC & PHYSICAL	576	396	106	209	412	129	1048	758	185		269	159
CHLOROAROMATICS	HEXACHLOROBUTAD IENE	12	0	0	12	0	0	=	0	0	10	0	0
	123 TRICHLOROBENZENE	12	0	0	12	0	0	11	0	0	10	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM EASTERLY

SUMMARY TABLE OF RESULTS (1989)

		SITE											
SCAN	PARAMETER	TOTAL	RAW TOTAL POSITIVE TRACE	TRACE	TREATED TOTAL POSITIVE TRACE	TED SITIVE TA		SITE 1 TOTAL POSITIVE TRACE	1 TIVE TR		SITE 2 TOTAL POSITIVE	'E TRACE	J.
CHLOROAROMATICS	1234 T-CHLOROBENZENE	12	0	0	12	0	0	=	0	0	10	0	0
	1235 T-CHLOROBENZENE	12	0	0	12	0	0	=	0	0	10	0	0
	124 TRICHLOROBENZENE	12	0	0	12	0	0	Ξ	0	0	10	0	0
	1245 T-CHLOROBENZENE	12	0	0	12	0	0	Ξ	0	0	10	0	0
	135 TRICHLOROBENZENE	12	0	0	12	0	0	=	0	0	10	0	0
	HCB	12	0	0	12	0	0	<b>=</b>	0	0	10	0	0
	HEXACHLOROETHANE	12	0	0	12	0	0	=	0	0	10	0	0
	OCTACHLOROSTYRENE	12	0	0	12	0	0	Ξ	0	0	10	0	0
	PENTACHLOROBENZENE	12	0	0	12	0	0	=	0	0	10	0	0
	236 TRICHLOROTOLUENE	12	0	0	12	0	0	=	0	0	10	0	0
	245 TRICHLOROTOLUENE	12	0	0	12	0	0	Ξ	0	0	10	0	0
	26A TRICHLOROTOLUENE	12	0	0	12	0	0	=	0	0	10	0	0
*TOTAL SCAN CHLOROAROMATICS	ROMATICS	168	0	0	168	0	0	154	0	0	140	0	0
												:	1
CHLOROPHENOLS	234 TRICHLOROPHENOL	2	0	0	2	0	0					,	
	2345 T-CHLOROPHENOL	2	0	0	2	0	0			•		,	
	2356 T-CHLOROPHENOL	2	0	0	7	0	0	•	•				
	245-TRICHLOROPHENOL	2	0	0	2	0	0		•	•			
	246-TRICHLOROPHENOL	2	0	0	2	0	0						
	PENTACHLOROPHENOL	2	0	0	2	0	0			•			
*TOTAL SCAN CHLOROPHENOLS	HENOLS	12	0	0	12	0	0	0	0	0	0	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM EASTERLY

SUMMARY TABLE OF RESULTS (1989)

		SITE											
SCAN	PARAMETER	TOTAL	RAW TOTAL POSITIVE TRACE	TRACE	TREATED TOTAL POSITIVE TRACE	ED ITIVE TR		SITE 1 TOTAL POSITIVE TRACE	VE TRAC		SITE 2 TOTAL POSITIVE TRACE	TRA	ä
РАН	PHENANTHRENE	12	0	0	12	0	0				; · · · · · · · · · · · · · · · · · · ·		; .
	ANTHRACENE	12	0	0	12	0	0	•					•
	FLUORANTHENE	12	0	0	12	0	0	•					•
	PYRENE	12	0	0	12	0	0						•
	BENZO(A)ANTHRACENE	12	0	0	12	0	0						•
	CHRYSENE	12	0	0	12	0	0						•
	DIMETH. BENZ(A)ANTHR	7	0	0	4	0	0						•
	BENZO(E) PYRENE	12	0	0	12	0	0						•
	BENZO(B) FLUORANTHEN	12	0	0	12	0	0						•
	PERYLENE	12	0	0	12	0	0						•
	BENZO(K) FLUORANTHEN	12	0	0	12	0	0						•
	BENZO(A) PYRENE	7	0	0	7	0	0						•
	BENZO(G, H, I) PERYLEN	12	0	0	12	0	0						•
	DIBENZO(A, H) ANTHRAC	12	0	0	12	0	0						•
	INDENO(1,2,3-C,D) PY	12	0	0	12	0	0	•					•
	BENZO(B) CHRYSENE	12	0	0	12	0	0						•
	CORONENE	12	0	0	12	0	0						•
*TOTAL SCAN PAH		191	0	0	191	0	0	0	0	0	0	0	0
PESTICIDES & PCB	ALDRIN	12	0	0	12	0	0	11	0				. 0
	ALPHA BHC	12	0	7	12	0	9	1	0	S	10	0	9
	BETA BHC	12	0	0	12	0	0	=	0	0		0	0
	LINDANE	12	0	0	12	0	0	1	0	0	10	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM EASTERLY

SUMMARY TABLE OF RESULTS (1989)

PESTICIDES & PCB

SCAN

								,			•	
		RAW		=	TREATED			SITE 1		SITE 2	2	
PARAMETER	TOTAL P	TOTAL POSITIVE TRACE	TRACE		TOTAL POSITIVE TRACE	TRACE		TOTAL POSITIVE TRACE	TRACE	TOTAL POSITIVE TRACE	ITIVE	TRACE
ALPHA CHLORDANE	12	0	0	12	0	0	=	0	0	10	0	0
GAMMA CHLORDANE	12	0	0	12	0	0	Ξ	0	0	10	0	0
DIELDRIN	12	0	0	12	0	0	=	0	0	10	0	0
METHOXYCHLOR	12	0	0	12	0	0	1	0	0	10	0	0
ENDOSULFAN 1	12	0	0	12	0	0	=	0	0	10	0	0
ENDOSULFAN 11	12	0	0	12	0	0	=	0	0	10	0	0
ENDRIN	12	0	0	12	0	0	11	0	0	10	0	0
ENDOSULFAN SULPHATE	12	0	0	12	0	0	=	0	0	10	0	0
HEPTACHLOR EPOXIDE	12	0	0	12	0	0	=	0	0	10	0	0
HEPTACHLOR	12	0	0	12	0	0	=	0	0	10	0	0
MIREX	12	0	0	12	0	0	Ξ	0	0		0	0
OXYCHLORDANE	12	0	0	12	0	0	Ξ	0	0	10	0	0
OPDDT	12	0	0	12	0	0	Ξ	0	0		0	0
PCB	12	0	0	12	0	0	Ξ	0	0	10	0	0
000	12	0	0	12	0	0	=	0	0	10	0	0
PPDDE	12	0	0	12	0	0	=	0	0	10	0	0
PPDDT	12	0	0	12	0	0	Ξ	0	0	10	0	0
AMETRINE	12	0	0	12	0	0	9	0	0	9	0	0
ATRAZINE	12	0	0	12	0	0	9	0	0	9	0	0
ATRATONE	12	0	0	12	0	0	9	0	0	9	0	0
CYANAZINE (BLADEX)	12	0	0	12	0	0	•	0	0	9	0	0
O-ETHYL ATRAZINE	12	0	0	12	0	0	9		0	9	0	0
D-ETHYL SIMAZINE	12	0	0	12	0	0	9	0	0	9	0	0
PROMETONE	12	0	0	12	0	0	•	0	0	9	0	0
2017	ţ	•	•	ç	•	•	•		•	•	•	•

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM EASTERLY

SUMMARY TABLE OF RESULTS (1989)

		SITE											
SCAN	PARAMETER	TOTAL	RAW TOTAL POSITIVE TRACE	TRACE	TREATED TOTAL POSITIVE TRACE	reo SITIVE T	RACE	SITE TOTAL POSI	SITE 1 TOTAL POSITIVE TRACE		SITE 2 TOTAL POSITIVE TRACE	Æ	ACE
PESTICIDES & PCB	PROMETRYNE	12	0	0	12	0	0	9	0		9		0
	METRIBUZIN (SENCOR)	12	0	0	12	0	0	9	0	0	9	0	0
	SIMAZINE	12	0	0	12	0	0	9	0	0	9	0	0
	ALACHLOR (LASSO)	12	0	0	12	0	0	9	0	0	9	0	0
	METOLACHLOR	12	0	0	12	0	0	9	0	0	9	0	0
*TOTAL SCAN PESTICIDES & PCB	ES & PCB	807	0	^	807	0	10	309	0	<b>1</b> 0	288	0	9
										į			
PHENOL I CS	PHENOLICS	12	•	2	12	60	4	•	•		•		•
*TOTAL SCAN PHENOLICS	s	12	9	Ŋ	12	80	4	0	0	0	0	0	0
SPECIFIC PESTICIDES	TOXAPHENE	12	0	0	12	0	0	=	0	0	10	0	0
	2,4,5-T	2	0	0	7	0	0	•	٠		•		•
	2,4-0	2	0	0	7	0	0						•
	2,4-08	2	0	0	7	0	0	•					•
	2,4 D PROPIONIC ACID	2	0	0	2	0	0	•	•				•
	DICAMBA	2	0	0	7	0	0	•					•
	PICHLORAM	0	0	0	0	0	0	•			•		•
	SILVEX	2	0	0	7	0	0	•			•		•
	DIAZINON	-	0	0	7	0	0	•		•	•		•
	DICHLOROVOS	-	0	0	7	0	0				•		•
	CHLORPYRIFOS	•	0	0	7	0	0	•			•		•

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM EASTERLY

SUMMARY TABLE OF RESULTS (1989)

PERMITER 1014 POSITIVE TRACE TOTAL POSITIVE TRACE T			SITE										
METHYL 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SCAN	PARAMETER	TOTAL	RAW POSITIVE	TRACE	TREAT TOTAL POS	ED ITIVE TRA		SITE 1 AL POSITIV	: TRACE	S TOTAL	TTE 2 POSITIVE	TRACE
METHYL  1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SPECIFIC PESTICIDES	ETHION	-	0	0	2	0	0	; ; ; ; ;		•		
AATHION 1 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		AZINPHOS-METHYL	0	0	0	0	0	0		•	٠	•	٠
NATHION  1 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		MALATHION	-	0	0	2	0	0		٠	•	•	•
NA 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		MEVINPHOS	-	0	0	2	0	0		•	•	•	•
THION  1 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		METHYL PARATHION	-	0	0	2	0	0	•	•	٠	•	•
Mark Samura (1)		METHYLTRITHION	-	0	0	2	0	0			•	•	•
N 1 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		PARATHION	-	0	0	2	0	0	•	•	٠	•	٠
M		PHORATE	-	0	0	2	0	0		٠	•	•	•
1 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		RELDAN	-	0	0	2	0	0		•	•	•	•
N		RONNEL	-	0	0	2	0	0	•		•	•	•
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		AMINOCARB	0	0	0	0	0	0	•		•	•	•
N 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		BENONYL	•	0	0	0	0	0		•	٠	٠	•
2 0 0 1 0 0		BUX	0	0	0	0	0	0	•		•	•	•
2 0 0 1 0 0		CARBOFURAN	2	0	0	-	0	0	•		٠	•	٠
2       0       0       1       0       0       .		CICP	2	0	0	-	0	0	•		•	•	•
2       0       0       1       0       0       .		DIALLATE	2	0	0	-	0	0	•	•	٠	•	•
2       0       0       1       0       0       .		EPTAM	2	0	0	-	0	0			٠	•	•
53 0 0 56 0 0 11 0 0 10		IPC	2	0	0	-	0	0	•	•	•	•	•
53 0 0 56 0 0 11 0 0 10		PROPOXUR	2	0	0	-	0	0		•	•	•	•
53 0 0 56 0 0 11 0 0 10		CARBARYL	2	0	0	-	0	0			٠	•	•
53 0 0 56 0 0 11 0 0 10		BUTYLATE	2	0	0	-	0	0			•	•	•
	TOTAL SCAN SPECIFIC	PESTICIDES	53	0	0	26	0	0	11		10	0	0
	OF LIFE ION	000000	15		•	12	<b>-</b>	-	11	0	٥		

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM EASTERLY

SUMMARY TABLE OF RESULTS (1989)

		SITE											
			RAH		±	TREATED		v	SITE 1			SITE 2	
SCAN	PARAMETER	TOTAL	TOTAL POSITIVE TRACE	TRACE		TOTAL POSITIVE TRACE	TRACE	TOTAL	TOTAL POSITIVE TRACE	TRACE		TOTAL POSITIVE TRACE	TRACI
VOLATILES	TOLUENE	12	0	2	12	0	9	=	0	2		0	
	ETHYLBENZENE	12	0	2	12	0	2	Ξ	0	7	٥		
	P-XYLENE	12	0	0	12	0	0	Ξ	0	0	٥		_
	M-XYLENE	12	0	-	12	0	2	=	0	0	٥	0	_
	O-XYLENE	12	0	-	12	0	-	11	0	-	٥	0	Ī
	STYRENE	12		9	12	-	٥	1	0	∞	٥	0	Ĭ
	1,1 DICHLOROETHYLENE	12	0	0	12		0	Ξ	0	0	٥	0	_
	METHYLENE CHLORIDE	12	0	0	12	0	0	Ξ	0	0	٥	0	
	11, 201CHLOROETHYLENE	12	0	0	12	0	0	Ξ	0	0	٥	0	
	1,1 DICHLOROETHANE	12	0	0	12	0	0	=	0	0	٥	0	
	CHLOROFORM	12	-	4	12	12	0	Ξ	=	0	٥	•	
	111, TRICHLOROETHANE	12	0	2	12	0	-	Ξ	0	m	٥	0	•
	1,2 DICHLOROETHANE	12	0	0	12	0	0	=	0	0	٥	0	Ū
	CARBON TETRACHLORIDE	12	0	0	12	0	2	Ξ	0	2	٥	0	•
	1,2 DICHLOROPROPANE	12	0	0	12	0	0	Ξ	0	0	٥	0	_
	TRICHLOROETHYLENE	12	0	0	12	0	0	=	0	0	٥	0	J
	DICHLOROBROMOMETHANE	12	_	m	12	12	0	Ξ	=	0	٥	•	
	112 TRICHLOROETHANE	12	0	0	12	0	0	=	0	0	٥	0	_
	CHLOROD I BROMOMETHANE	12	-	0	12	12	0	Ξ	=	0	٥	٥	
	T-CHLOROETHYLENE	12	0	0	12	0	-	Ξ	0	-	٥	0	
	BROMOFORM	12	0	-	12	0	12	=	0	Ξ	٥	0	٥
	1122 T-CHLOROETHANE	12	0	0	12	0	0	=	0	0	٥	0	
	CHLOROBENZENE	12	0	0	12	0	0	Ξ	0	0	٥	0	_
	1,4 OICHLOROBENZENE	12	0	0	12	0	0	Ξ	0	-	٥	0	_
	1,3 OICHLOROBENZENE	12	0	0	12	0	0	Ξ	0	0	٥	0	Ū

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM EASTERLY

SUMMARY TABLE OF RESULTS (1989)

		SITE											
			RAW		TRE	TREATED		S	SITE 1		SITE 2	2	
SCAN		TOTAL	TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE	TRACE	TOTAL	OSITIVE .	TRACE	TOTAL	POSITIVE	TRACE	TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE	TIVE	RACE
VOLATILES 1,2 DICHLO	- 24	12	0	0	12	0	0	=	0	0	OBENZENE 12 0 0 11 0 0 9 0 0	0	0
	ETHLYENE DIBROMIDE	12	0	0	12	0	0	=	0	0	٥	0	0
	TOTL TRIHALOMETHANES	12	-	0	12	12	0	=	Ξ	0	٥	٥	0
*TOTAL SCAN VOLATILES		348	5	23	348	67	39	319	77	33	261	36	18
*TOTAL GROUP ORGANIC		1192	=	37	1195	57	53	793	77	38	669	36	54
			• • • • • •								• • • • • • • •		
TOTAL		1803		434 143 1838	1838	471	471 182 1874	1874	806	806 223 1676	1676	735 183	183

#### KEY TO TABLE 5 and 6

- A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
  - 1. Maximum Acceptable Concentration (MAC)
  - 1+. MAC for Total Trihalomethanes
  - 1\*. MAC for Bacteriological Analyses
     Poor water quality is indicated when :
    - total coliform counts > 0 < 5
    - P/A Bottle Test is present after 48 hours
    - Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
    - Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
    - Standard Plate Count should not exceed 500 organisms per ml at 35 °C within 48 hours
  - 2. Interim Maximum Acceptable Concentration (IMAC)
  - Maximum Desirable Concentration (MDC)
  - 4. Aesthetic or Recommended Operational Guideline
    - hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.
- B HEALTH & WELFARE CANADA (H&W)
  - Maximum Acceptable Concentration (MAC)
  - 2. Proposed MAC
  - 3. Interim MAC
  - 4. Aesthetic Objective (AO) (for xylenes, a total)
- C WORLD HEALTH ORGANIZATION (WHO)
  - 1. Guideline Value (GV)
  - 2. Tentative GV
  - Aesthetic GV
- D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
  - Maximum Contaminant Level (MCL)
  - Suggested No-Adverse Effect Level (SNAEL)
  - 3. Lifetime Health Advisory
  - 4. EPA Ambient Water Quality Criteria
  - 5. Maximum Contaminant Level Goal (MCLG)
- F EUROPEAN ECONOMIC COMMUNITY (EEC)
  - 1. Health Related Guideline Level
  - 2. Aesthetic Guideline Level
  - 3. Maximum Admissable Concentration (MADC)
- G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE
- H USSR MAXIMUM PERMISSIBLE CONCENTRATION
- I NEW YORK STATE AMBIENT WATER GUIDELINE
- N/A NONE AVAILABLE

#### INTERPRETATION OF DATA

The interpretation of analytical results that are obtained from measurements near the limit of detection of the measurement process is subject to greater uncertainty than those at higher concentrations. The principle areas of concern relate to whether the substance has actually been detected, whether it has been properly identified, and whether it is an artifact of the measurement process. In other words, false positives can be caused by the instrumentation or the test procedures used, when in fact these compounds are not present in the sample.

There are several methods to treat data from such measurements: 1. Exclude the low-level data because of this uncertainty factor. However, studies of long-term environmental trends and modelling may be adversely affected by exclusion of such data.

2. Qualify these data so the user is aware of the greater uncertainty associated with their use.

For the Drinking Water Surveillance Program, measurements near the limit of detection of the measurement process are reported qualified by the code "<T". Results quantified by "W" indicate a zero measurement. These results are reported for purposes of modelling and long-term trend analysis and no significance should be attributed to a single determination of a substance below "T" (a single determination may well be a false positive). Repeat analysis or additional data are needed before it can be stated with certainty that the substance in question was truly present. On the other hand, it is less likely that repeated detection of a substance at or near the limit of detection at a specific location is solely due to an artifact in the measurement system, and more likely represents a true positive. However the average of such data is still only an estimate of the amount of substance present subject to the possible biases of the method used.

#### LABORATORY RESULTS, REMARK DESCRIPTIONS

•	No Sample Taken
BDL	Below Minimum Measurable Amount
<t< td=""><td>Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)</td></t<>	Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)
>	Results Are Greater Than The Upper Limit
<=>	Approximate Result
! AW	No Data: Analysis Withdrawn
! CR	No Data: Could Not Confirm By Reanalysis
!cs	No Data: Contamination Suspected
!IL	No Data: Sample Incorrectly Labelled
!IP	No Data: Insufficient Preservative

No Data: Insufficient Sample

!IS

! LA No Data: Laboratory Accident No Data: Test Queued After Sample Discarded !LD No Data: No Authorization To Perform Reanalysis !NA No Data: No Procedure !NP No Data: Sample Not Received !NR No Data: Obscured Plate !OP No Data: Quality Control Unacceptable !QU No Data: Procedural Error - Sample Discarded !PE No Data: Sample pH Outside Valid Range !PH !RE No Data: Received Empty No Data: See Attached Report (no numeric results) ! RO !SM No Data: Sample Missing No Data: Send Separate Sample Properly Preserved !SS No Data: Indeterminant Interference !UI !TX No Data: Time Expired Approximate, Total Count Exceeded 300 Colonies A3C APL Additional Peak, Large, Not Priority Pollutant APS Additional Peak, Less Than, Not Priority Pollutant CIC Possible Contamination, Improper Cap CRO Calculated Result Only PPS Test Performed On Preserved Sample RMP P and M-Xylene Not Separated RRV Rerun Verification RVU Reported Value Unusual SPS Several Peaks, Small, Not Priority Pollutant UCR Unreliable: Could Not Confirm By Reanalysis UCS Unreliable: Contamination Suspected UIN Unreliable: Indeterminant Interference XP Positive After X Number of Hours

T# (T06) Result Taken After # Hours

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

#### DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	BACTERIO	LOGICAL				
FECAL COLII	FORM MF (CT/100M	L)	DET'N L	IMIT = 0	GUIDELINE =	0 (A1)
JAN	1 T24		•	•	•	•
FEB	0 T48	•	•	•	•	•
MAR	0 T48	•	•	•	•	•
APR	! LA	•	•	•	•	•
MAY	0	•	•	•	•	•
JUN	BDL	•	•	•	•	•
JUL	1	•	•	•	•	•
AUG	2		•	•	•	•
SEP	0	•	•	•	•	•
OCT	D		•	•	•	•
NOV	8	•	•	•	•	•
DEC	4	•		•	•	•
STANDRD PLA	ATE CNT MF (	>	DET'N L	IMIT =	GUIDELINE =	
JAN		0 <=>	•	0 <=		0 <=>
FEB		0 <=>	•	0 <=		0 <=>
MAR		0 <=>	•	•	•	0 <=>
APR		1 <=>		1 <=		•
MAY	•	1 <=>	•	3 <=	·> .	1 <=>
JUN	•	0 <=>		1	•	0 <=>
JUL		1 <=>		3 <=	·> .	2 <=>
AUG	•	1 <=>	•	640	•	•
SEP		2 <=>	•	7 <=	·	38
OCT		1 <=>		7 <=	·> .	0 <=>
NOV	•	15	•	23	•	9 <=>
DEC		11	•	17	•	7 <=>
TOTAL COLII	FORM MF (CT/100M	IL )	DET'N L	IMIT = 0	GUIDELINE =	5/100HL(A1)
		0 -0/			.,	0.704
JAN	28 124	0 T24	•	0 10		0 106
FEB	4 T48	0 148	•	0 т2		0 T24
MAR	77 A3C	0 148	•	•	•	0 124
APR	2 A3C	0 T48	•	0 т2		•
MAY	6 A3C	0	•	0	•	0
JUN	5 A3C	0	•	0	•	0
JUL	52 A3C	0	•	0	•	1
AUG	55 A3C	0	•	0	•	•
SEP	102 A3C	0	•	0	•	0
OCT	60	0	•	0	•	0
NOV DEC	52 20 <=>	0	•	0	•	0 0
			•			
T COLIFORM	BCKGRD MF (CT/1	100ML )	DET'N L	IMIT = 0	GUIDELINE =	N/A
JAN	104 T24	0 т24		0 10		0 106
FEB	6 T48	D T48		0 12		0 T24
MAR	2400 >	0 т48	•	•	•	0 124

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	· • • - • • • • • • • • • • • • •					
APR	760 A3C	0 T48		O T24		•
MAY	500 A3C	0		0	•	0
JUN	590 A3C	0		0		0
JUL	1080	0	•	0	•	0
AUG	2400 >	0		0	•	•
SEP	4800 >	0		0	•	0
OCT	1000	0		0		0
NOV	336	0		0		0
DEC	20 <=>	0		0	•	0

WATER TREATMENT PLANT

TABLE 5 DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

DISTRIBUTION SYSTEM

CHEMISTRY (FLD)		RAW	TREATED	SITĖ 1		SITE 2	
JAN				STANDING	FREE FLOW	STANDING	FREE FLOW
JAN		CHEMIST	RY (FLD)				
FEB750	FLD CHLORIN	NE (COMB) (	)	DET'N LI	MIT =	GUIDELINE =	
MAR	JAN	•	.680	.400	.800	.800	.850
APR	FEB	•	.750	.200	.800		
MAY         .700         .200         .550         .600         .650           JUN         .700         .200         .600         .400         .600           JUL         .5550         .100         .450         .600         .700           AUG         .700         .100         .400         .         .           SEP         .3550         .1300         .500         .400         .         .           OCT         .350         .300         .500         .400         .         .           MCV         .3550         .200         .550         .500         .600           DEC         .700         .200         .550         .500         .600           FLD CHLORINE FREE (         )         DET'N LIMIT =         GUIDELINE =           JAN         .070         .         .         .         .           APR         .100         .         .         .         .         .           JAN         .070         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .	MAR	•	.750			.600	.750
JUN	APR	•	.550	.200		•	
JUL550100450600700 AUG700 . 100400 SEP3550100400 OCT350300500400 OCT350300500400 DEC700200550500600 DEC700200600450600  FLD CHLORINE FREE ( ) DET'N LIMIT = GUIDELINE =  JAN070  JAN070 JUN000000000000000 JUL050000000000000 AUG000000000000000 AUG000000000000000 OCT350000000000000000 OCT350000000000000000 DEC	MAY	•	.700	.200		.600	
AUG700100400	JUN	•	.700	.200	.600		
SEP	JUL	•	.550	.100	.450	.600	.700
OCT . 350 .300 .500 .400 .550  NOV . 350 .200 .550 .500 .600  DEC . 700 .200 .600 .450 .600  FLD CHLORINE FREE ( ) DET'N LIMIT = GUIDELINE =  JAN070	AUG	•	.700	.100	.400	•	•
NOV350	SEP	•	.350	.100	.400	•	•
DEC   .700   .200   .600   .450   .600	OCT	•	.350	.300	.500	.400	
DET'N LIMIT =   GUIDELINE =	NOV		.350	.200	.550	.500	
JAN070	DEC	•	.700	.200	.600	.450	.600
APR100	FLD CHLORIA	NE FREE (	)	DET'N LI	MIT =	GUIDELINE =	
APR100	NAL	_	.070				•
MAY					•		
JUN					.050		
JUL050				.000		.000	.000
AUG000 .000 .000 .000		•	.050				
SEP         . 350         .000         .000         .000         .000           OCT         . 350         .000         .000         .000         .000           NCV         . 400         .000         .000         .000         .000           DEC        000         .000         .000         .000           FLD CHLORINE (TOTAL) (         )         DET'N LIMIT =         GUIDELINE =           JAN		•					
OCT         . 3550         .000         .850         .850         .850         .850         .850         .800         .850         .800         .850         .800 <t< td=""><td></td><td>•</td><td></td><td></td><td></td><td>.000</td><td></td></t<>		•				.000	
NOV         .         .400         .000         .000         .000         .000         .000           DEC         .         .         .000         .000         .000         .000           FLD CHLORINE (TOTAL) (         )         DET'N LIMIT =         GUIDELINE =           JAN         .         .750         .400         .800         .800         .850           FEB         .         .750         .200         .800         .700         .800           MAR         .         .750         .200         .800         .700         .800           MAR         .         .750         .200         .800         .700         .800           MAR         .         .750         .200         .600         .700         .600         .750         .         .         .           JUL         .         .600         .100         .450         .600         .700         .		•					
DEC         .         .000         .000         .000         .000           FLD CHLORINE (TOTAL) (         )         DET'N LIMIT =         GUIDELINE =           JAN         .         .750         .400         .800         .800         .850           FEB         .         .750         .200         .800         .700         .800           MAR         .         .750         .         .600         .750         .         .           APR         .         .650         .200         .750         .         .         .           MAY         .         .700         .200         .600         .600         .650         .         .           JUN         .         .700         .200         .600         .400         .         .         .           JUL         .         .600         .100         .450         .600         .700         .							
JAN750		•					
FEB750 .200 .800 .700 .800  MAR750600 .750  APR650 .200 .750  MAY700 .200 .600 .600 .600 .650  JUN700 .200 .600 .400 .600  JUL600 .100 .450 .600 .700  AUG700 .100 .400  SEP700 .100 .400  OCT700 .300 .500 .400 .550  NOV750 .200 .550 .500 .600  DEC700 .200 .600 .450 .600  FLD PH (DMNSLESS )  DET'N LIMIT = N/A GUIDELINE = 6.5-8.5(A4)  JAN 8.000 7.490 7.600 7.600 7.610 7.610  FEB 8.060 7.400 7.430 7.410 7.400 7.410  MAR 8.130 7.5107.570 7.550  APR 8.230 7.570 7.700 7.620	FLD CHLORIN	NE (TOTAL) (	)	DET'N LI	MIT =	GUIDELINE =	
FEB750 .200 .800 .700 .800  MAR750600 .750  APR650 .200 .750  MAY700 .200 .600 .600 .600 .650  JUN700 .200 .600 .400 .600  JUL600 .100 .450 .600 .700  AUG700 .100 .400  SEP700 .100 .400  OCT700 .300 .500 .400 .550  NOV750 .200 .550 .500 .600  DEC700 .200 .600 .450 .600  FLD PH (DMNSLESS )  DET'N LIMIT = N/A GUIDELINE = 6.5-8.5(A4)  JAN 8.000 7.490 7.600 7.600 7.610 7.610  FEB 8.060 7.400 7.430 7.410 7.400 7.410  MAR 8.130 7.5107.570 7.550  APR 8.230 7.570 7.700 7.620			·				
MAR		•					
APR		•		.200	.800		
MAY700 .200 .600 .600 .600 .650  JUN700 .200 .600 .400 .600  JUL600 .100 .450 .600 .700  AUG700 .100 .400  SEP700 .100 .400  OCT700 .300 .500 .400 .550  NOV750 .200 .550 .500 .600  DEC700 .200 .600 .450 .600  FLD PH (DMNSLESS )  DET'N LIMIT = N/A GUIDELINE = 6.5-8.5(A4)  JAN 8.000 7.490 7.600 7.600 7.610 7.610  FEB 8.060 7.400 7.430 7.410 7.400 7.410  MAR 8.130 7.5107.570 7.550  APR 8.230 7.570 7.700 7.620		•				.600	. <i>7</i> 50
JUN		•				•	•
JUL       . 600       .100       .450       .600       .700         AUG       . 700       .100       .400        .         SEP       . 700       .100       .400        .         OCT       . 700       .300       .500       .400       .550         NOV       . 750       .200       .550       .500       .600         DEC       . 700       .200       .600       .450       .600         FLD PH (DMNSLESS )         DET'N LIMIT = N/A       GUIDELINE = 6.5-8.5(A4)         JAN 8.000 7.490 7.490 7.600 7.600 7.600 7.610 7.610 7.610         FEB 8.060 7.400 7.400 7.430 7.410 7.400 7.400 7.410         MAR 8.130 7.510 7.570 7.550         APR 8.230 7.570 7.570 7.700 7.620		•					
AUG700 .100 .400		•					
SEP       . 700       .100       .400		•				.600	.700
OCT         .         .700         .300         .500         .400         .550           NOV         .         .750         .200         .550         .500         .600           DEC         .         .700         .200         .600         .450         .600           FLD PH (DMNSLESS )         DET'N LIMIT = N/A         GUIDELINE = 6.5-8.5(A4)           JAN 8.000 7.490 7.490 7.600 7.600 7.610 7.610 7.610         7.610 7.610 7.410 7.400 7.410           FEB 8.060 7.400 7.430 7.410 7.400 7.400 7.410         7.570 7.550           APR 8.230 7.570 7.570 7.700 7.620 .         .		•				•	•
NOV750 .200 .550 .500 .600 DEC700 .200 .600 .450 .600  FLD PH (DMNSLESS )  DET'N LIMIT = N/A GUIDELINE = 6.5-8.5(A4)  JAN 8.000 7.490 7.600 7.600 7.610 7.610 FEB 8.060 7.400 7.430 7.410 7.400 7.410 MAR 8.130 7.5107.570 7.550 APR 8.230 7.570 7.700 7.620		•				•	
DEC        700         .200         .600         .450         .600           FLD PH (DMNSLESS )         DET'N LIMIT = N/A         GUIDELINE = 6.5-8.5(A4)           JAN 8.000         7.490         7.600         7.600         7.610         7.610           FEB 8.060         7.400         7.430         7.410         7.400         7.410           MAR 8.130         7.510         .         .         7.570         7.550           APR 8.230         7.570         7.700         7.620         .         .		•					
FLD PH (DMNSLESS )  DET'N LIMIT = N/A  GUIDELINE = 6.5-8.5(A4)  JAN 8.000 7.490 7.600 7.600 7.610 7.610  FEB 8.060 7.400 7.430 7.410 7.400 7.410  MAR 8.130 7.510 7.570 7.550  APR 8.230 7.570 7.700 7.620		•					
JAN     8.000     7.490     7.600     7.600     7.610     7.610       FEB     8.060     7.400     7.430     7.410     7.400     7.410       MAR     8.130     7.510     .     .     7.570     7.550       APR     8.230     7.570     7.700     7.620     .     .	DEC	·	.700	.200	.600	.450	.600
FEB     8.060     7.400     7.430     7.410     7.400     7.410       MAR     8.130     7.510     .     .     7.570     7.550       APR     8.230     7.570     7.700     7.620     .     .     .	FLD PH (DM)	NSLESS )		DET'N LI	IMIT = N/A	GUIDELINE =	6.5-8.5(A4)
FEB     8.060     7.400     7.430     7.410     7.400     7.410       MAR     8.130     7.510     .     .     7.570     7.550       APR     8.230     7.570     7.700     7.620     .     .     .	JAN	8.000	7.490	7.600	7.600	7.610	7.610
MAR 8.130 7.510 7.570 7.550 APR 8.230 7.570 7.700 7.620							7.410
APR 8.230 7.570 7.700 7.620							
						7.720	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
JUN	8.110	7.670	7.580	7.640	7.670	7.730
JUL	8.200	7.550	7.720	7.670	7.630	7.550
AUG	8.130	7.440	7.670	7.630		
SEP	8.370	7.600	7.550	7.600	7.560	7.540
OCT	8.220	7.580	7.670	7.670	7.660	7.670
NOV	8.130	7.460	7.790	7.740	7.940	7.780
DEC	8.020	7.300	7.800	7.730	7.880	7.780
FLD TEMPE	RATURE (DEG.C	)	DET'N LI	MIT = N/A	GUIDELINE =	15 (A1)
JAN	3.000	3.000	19.000	6.000	11.000	6.000
FEB	2.800	3.000	20.000	6.000	10.000	6.000
MAR	1.900	2.000			10.000	4.000
APR	4.000	4.000	19.000	7.000	•	•
MAY	6.000	6.000	19.000	9.000	11.000	7.500
JUN	6.000	6.000	20.000	13.000	15.500	11.000
JUL	7.000	7.500	21.000	12.000	13.000	12.000
AUG	17.000	17.000	22.000	19.000	•	•
SEP	19.000	19.000	22.000	19.000	18.000	16.000
OCT	12.000	13.000	18.000	13.000	16.000	12.000
NOV	5.500	6.000	21.000	11.000	14.500	10.000
DEC	2.500	3.000	19.000	7.000	12.000	7.000
FLD TURBI	DITY (FTU	)	DET'N LI	MIT = N/A	GUIDELINE =	1.0 (A1)
JAN	.870	.160	.160	.170	.200	.310
FEB	.530	.260	.180	.210	.220	.210
MAR	.580	.180		•	.030	.350
APR	.370	.230	.180	.160	•	•
MAY	.950	.170	.150	.150	.340	.200
JUN	.600	.650	.150	.130	.180	.190
JUL	.300	.170	.300	.300	.370	.330
AUG	.800	.170	.230	.300		•
SEP	.790	.230	.220	.220	.280	.240
OCT	.780	.260	.300	.240	.300	.280
NOV	.870	.180	.200	.230	.380	.260
DEC	1.200	.120	.100	.140	.230	.240

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

RAW TREATED SITE 1

DISTRIBUTION SYSTEM

SITE 2

	KAW	IKENIED	3112 1			
			STANDING	FREE FLOW	STANDING	FREE FLOW
	CHEI	 Mistry (LAB)				
LKALINITY	(MG/L	)	DET'N	LIMIT = .200	GUIDELINE =	30-500 (A4)
JAN	101.800	95.900	98.000	99.800	101.100	97.100
FEB	100.700	92.500	94.600	94.200	93.000	93.200
MAR	102.000	96.600			97.700	99.800
APR	99.300	90.900	91.800	91.900		•
MAY	99.700	97.000	95.500	95.400	95.200	95.300
JUN	100.100	94.700	95.700	95.000	95.300	94.700
JUL	102.600	95.000	95.600	95.400	94.500	94.400
AUG	99.700	93.200	92.300	92.200	•	•
SEP	96.000	88.500	88.700	89.000	88.500	88.600
OCT	99.400	94.300	95.600	95.500	94.800	95.400
NOV	101.900	97.200	97.800	97.400	97.000	97.300
DEC	101.900	97.400	97.600	97.200	96.800	96.700
ALCIUM (M	G/L )		DET'N	LIMIT = .100	GUIDELINE =	100 (F2)
JAN	40.600	40.400	41.400	41.600	39.600	39.600
FEB	39.600	40.000	40.200	40.800	40.200	40.600
MAR	42.400	41.600			41.800	42.200
APR	37.800	39.600	39.200	39.000		
MAY	39.800	40.000	40.000	40.600	39.600	40.200
JUN	40.200	40.200	40.400	40.400	39.600	40.000
JUL	41.200	39.400	39.000	39.200	39.600	39.000
AUG	40.600	39.400	39.600	40.600		•
SEP	35.800	37.000	38.400	37.800	36.600	37.000
OCT	39.400	39.200	40.800	39.800	39.600	39.200
NOV	39.800	40.400	40.000	40.600	39.400	39.800
DEC	40.800	40.300	40.600	39.700	40.400	39.700
CHLORIDE (	MG/L )		DET'N	LIMIT = .200	GUIDELINE =	250 (A3)
JAN	24.000	25.700	25.800	25.900	26.100	26.100
FEB	22.900	25.600	26.100	26.200	26.000	25.500
MAR	22.900	24.900			24.400	24.700
APR	22.700	25.800	25.800	25.900	•	•
MAY	23.200	24.600	24.900	24.800	24.700	24.600
JUN	22.600	24.000	24.500	24.100	24.100	24.200
JUL	22.400	25.000	25.200	25.300	25.400	25.300
AUG	22.500	25.100	25.300	25.300	•	•
SEP	21.900	24.800	25.200	25.000	24.900	24.900
OCT	22.200	23.700	24.300	24.100	23.800	23.900
NOV	22.500	24.000	24.200	24.200	24.200	24.000
DEC	22.700	24.400	24.300	24.300	24.200	24.200
COLOUR (HZ	:U )		DET'N	LIMIT = .5	GUIDELINE =	5.0 (A3)
JAN	1.500 <	T .500 <t< td=""><td>1.000</td><td><t 1.000<="" td=""><td><t 1.000="" <1<="" td=""><td>1.000 &lt;</td></t></td></t></td></t<>	1.000	<t 1.000<="" td=""><td><t 1.000="" <1<="" td=""><td>1.000 &lt;</td></t></td></t>	<t 1.000="" <1<="" td=""><td>1.000 &lt;</td></t>	1.000 <
FEB	2.000 <	T 1.000 <t< td=""><td>1.000</td><td><t 1.000<="" td=""><td>&lt;7 1.500 &lt;1</td><td>1.000 &lt;</td></t></td></t<>	1.000	<t 1.000<="" td=""><td>&lt;7 1.500 &lt;1</td><td>1.000 &lt;</td></t>	<7 1.500 <1	1.000 <

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	1.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<></td></t<>	.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	.500 <t< td=""><td>.500 <t< td=""><td>•</td><td>•</td></t<></td></t<>	.500 <t< td=""><td>•</td><td>•</td></t<>	•	•
MAY	2.000 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""><td>1.500 <t< td=""><td>2.000 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.500 <t< td=""><td>1.500 <t< td=""><td>2.000 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	1.500 <t< td=""><td>1.500 <t< td=""><td>2.000 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<></td></t<>	1.500 <t< td=""><td>2.000 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<>	2.000 <t< td=""><td>1.500 <t< td=""></t<></td></t<>	1.500 <t< td=""></t<>
JUN	2.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 &lt; T</td><td>1.500 <t< td=""><td>2.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 &lt; T</td><td>1.500 <t< td=""><td>2.000 <t< td=""></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 &lt; T</td><td>1.500 <t< td=""><td>2.000 <t< td=""></t<></td></t<></td></t<>	1.000 < T	1.500 <t< td=""><td>2.000 <t< td=""></t<></td></t<>	2.000 <t< td=""></t<>
JUL	2.500	1.000 <t< td=""><td>1.000 <t< td=""><td>.500 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>.500 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<></td></t<>	.500 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.500 <t< td=""></t<></td></t<>	1.500 <t< td=""></t<>
AUG	1.500 <t< td=""><td>.500 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<></td></t<>	.500 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""><td>•</td><td>•</td></t<></td></t<>	1.000 <t< td=""><td>•</td><td>•</td></t<>	•	•
SEP	2.000 <t< td=""><td>.500 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	.500 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<>	1.000 <t< td=""></t<>
OCT	2.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""><td>2.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""><td>2.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""><td>2.000 <t< td=""></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.500 <t< td=""><td>2.000 <t< td=""></t<></td></t<></td></t<>	1.500 <t< td=""><td>2.000 <t< td=""></t<></td></t<>	2.000 <t< td=""></t<>
NOV	2.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>.500 <t< td=""><td>1.500 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""><td>.500 <t< td=""><td>1.500 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>.500 <t< td=""><td>1.500 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<></td></t<>	.500 <t< td=""><td>1.500 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<>	1.500 <t< td=""><td>1.000 <t< td=""></t<></td></t<>	1.000 <t< td=""></t<>
DEC	1.500 <t< td=""><td>.500 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""><td></td></t<></td></t<></td></t<></td></t<></td></t<>	.500 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""><td></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""><td></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.500 <t< td=""><td></td></t<></td></t<>	1.500 <t< td=""><td></td></t<>	
CONDUCTIV	TITY (UMHO/CM )		DET'N LI	MIT = 1		
JAN	329	333	335	334	334	334
FEB	324	331	<b>33</b> 5	334	331	331
MAR	337	341			341	341
APR	328	335	337	335		
MAY	323	327	327	328	326	328
JUN	323	326	333	327	326	326
JUL	324	328	330	330	328	330
AUG	316	320	323	321		
SEP	311	317	319	319	318	318
OCT	322		331	328	327	329
		325 320		331		331
NOV	326 332	329 777	331 335	334	331 333	333
DEC		333				
FLUORIDE	(MG/L )		DET'N LI	MIT = .01	GUIDELINE =	2.400 (A1)
JAN	.140	1.260	1.200	1.220	1.300	1.260
FEB	.120	1.460	1.240	1.220	1.240	1.260
MAR	.120	1.160	•	•	1.180	1.200
APR	.120	1.220	1.240	1.240	•	
MAY	.160	1.180	1.220	1.200	1.200	1.200
JUN	.120	1.200	1.300	1.160	1.160	1.180
JUL	.140	1.280	1.240	1.200	1.180	1.180
AUG	.140	1.160	1.200	1.200	•	
SEP	.120	1.200	1.220	1.220	1.220	1.220
OCT	.120	1.260	1.280	1.280	1.280	1.260
NOV	.140	1.120	1.160	1.160	1.180	1.160
DEC	.140	1.360	1.280	1.300	1.280	1.200
HARDNESS	(MG/L )		DET'N LI	MIT = .500	GUIDELINE =	80-100 (A4)
JAN	135.000	135.000	137.000	139.000	134.000	133.000
FEB	134.000	135.000	135.000	137.000	135.000	136.000
MAR	142.000	140.000			141.000	142.000
APR	131.000	134.000	134.000	134.000	1 . 0 0 0	
MAY	133.000	134.000	135.000	136.000	133.000	135.000
JUN	135.000	136.000	137.000	135.000	134.000	135.000
JUL	137.000	134.000	132.000	132.000	134.000	133.000
AUG	137.000	132.000	134.000	136.000	1.54.000	155.000
AUG	137.000	132.000	154.000	130.000	•	•

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

DISTRIBUTION SYSTEM

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STAND1NG	FREE FLOW	STANDING	FREE FLOW
SEP	123.000	126.000	130.000	128.000	126.000	126.000
OCT	133.000	133.000	137.000	133.000	135.000	133.000
NOV	135.000	136.000	134.000	137.000	134.000	135.000
DEC	136.300	135.000	135.000	132.900	134.800	132.900
IONCAL (DM	INSLESS )		DET'N LI	MIT = N/A	GUIDELINE =	N/A
MAL	.805	.796	1.224	1.305	2.722	.432
FEB	2.614	.182	1.091	.125	.235	.709
MAR	3.139	3.567		•	4.195	3.230
APR	1.427	1.786	1.556	1.393	•	•
MAY	1.107	.307	1.388	1.846	.272	1.481
NUL	.452	2.031	.682	1.193	.391	.914
JUL	.810	.567	1.376	1.476	.284	.723
AUG	1.242	.444	.828	2.022	•	•
SEP	2.152	. <i>7</i> 35	2.079	1.086	. 168	.081
OCT	1.093	2.029	3.283	1.229	2.029	1.474
NOV	.724	1.181	2.428	1.300	2.193	1.548
DEC	1.442	1.335	1.066	2.607	.326	1.939
LANGELIERS	INDEX (DMNSLE	SS )	DET'N LI	MIT = N/A	GUIDELINE =	N/A
JAN	.382	.154	. 163	036	342	.100
FEB	.397	.044	.125	.120	.148	.104
MAR	.551	.539		•	.586	.559
APR	.380	.162	.201	.200		•
MAY	.545	.495	.478	.504	.542	. 459
JUN	.241	.147	.273	.150	.193	.175
JUL	.502	.359	.387	.429	.469	.332
AUG	.434	.312	.339	.350		•
SEP	.424	.212	.259	.254	.217	.213
DCT	.519	.374	.397	.426	.411	.409
NOV	.424	.420	.368	.483	.368	.404
DEC	.594	.539	.543	.542	.588	.550
MAGNESIUM	(MG/L )		DET'N LI	MIT = .050	GUIDELINE =	30 (F2)
JAN	8.200	8.200	8.200	8.400	8.500	8.400
FEB	8.500	8.500	8.500	8.500	8.500	8.300
MAR	8.700	8.800	•	•	8.800	9.000
APR	9.000	8.600	8.800	8.800	•	
MAY	8.200	8.300	8.500	8.400	8.300	8.400
JUN	8.500	8.500	8.700	8.400	8.600	8.400
JUL	8.300	8.600	8.400	8.300	8.600	8.500
AUG	8.500	8.200	8.400	8.300	\\\\.	•
SEP	8.200	8.200	8.300	8.200	8.200	8.200
OCT	8.600	8.500	8.400	8.200	8.700	8.700
						0 (00
NOV	8.600	8.400	8.400	8.500	8.700	8.600

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SODIUM (MI	G/L )		DET'N L	IMIT = .200	GUIDELINE =	200 (c3)
1431	12.800	12.800	13.000	13.200	13.000	13.000
JAN FEB	11.200	11.600	11.600	11.800	11.800	11.800
MAR	12.200	12.200	11.000	11.500	12.400	12.600
APR	12.000	12.000	12.200	12.400		12.000
MAY	12.000	12.200	12.200	12.200	12.000	12.000
אטנ	11.400	11.800	12.200	11.400	11.600	11.600
	12.000	12.000	12.000	11.800	11.800	11.800
JUL						11.000
AUG	11.400	11.400	11.600	11.400	12.400	11.800
SEP	12.400	12.400	12.400	12.400		12.200
OCT	12.400	12.200	12.600	12.400	12.200	
NOV	12.200	12.000	12.200	11.800	12.000	12.000
DEC	11.700	11.600	11.800	11.500	11.900	11.800
AMMONIUM	TOTAL (MG/L	)	DET'N L	IMIT = 0.002	GUIDELINE =	.05 (F2)
JAN	.006 <t< td=""><td>.122</td><td>. 128</td><td>.136</td><td>.124</td><td>.128</td></t<>	.122	. 128	.136	.124	.128
FEB	.018	.178	.174	.160	.172	.170
MAR	BDL	.138			.150	.152
APR	.016	.148	.158	. 138	•	•
MAY	BDL	.122	.110	.112	.122	.120
JUN	.010	.106	.080	.096	.106	.114
JUL	.022	.112	.084	.108	.110	.118
AUG	.014	.110	.084	.112	• • • • • • • • • • • • • • • • • • • •	
SEP	.012	.112	.060	.104	.088	.100
OCT	BDL	.100	.110	.112	.102	.104
NOV	BDL	.106	.030	.096	.080	.086
DEC	BDL	.108	.088	.098	.088	.092
NITRITE (	MG/L )		DET'N L	IMIT = 0.001	GUIDELINE =	1.000 (A1)
JAN	.002 <t< td=""><td>.001 <t< td=""><td>.003 &lt;</td><td>T .001 <t< td=""><td>.002 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.001 <t< td=""><td>.003 &lt;</td><td>T .001 <t< td=""><td>.002 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<></td></t<>	.003 <	T .001 <t< td=""><td>.002 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<>	.002 <t< td=""><td>.001 <t< td=""></t<></td></t<>	.001 <t< td=""></t<>
FEB	.002 <t< td=""><td>.002 <t< td=""><td>.008</td><td>.004 <t< td=""><td>.004 <t< td=""><td></td></t<></td></t<></td></t<></td></t<>	.002 <t< td=""><td>.008</td><td>.004 <t< td=""><td>.004 <t< td=""><td></td></t<></td></t<></td></t<>	.008	.004 <t< td=""><td>.004 <t< td=""><td></td></t<></td></t<>	.004 <t< td=""><td></td></t<>	
MAR	.004 <t< td=""><td>.004 <t< td=""><td></td><td></td><td>.008</td><td>.005</td></t<></td></t<>	.004 <t< td=""><td></td><td></td><td>.008</td><td>.005</td></t<>			.008	.005
APR	.002 <t< td=""><td>.001 <t< td=""><td>.005</td><td>.001 &lt;7</td><td></td><td></td></t<></td></t<>	.001 <t< td=""><td>.005</td><td>.001 &lt;7</td><td></td><td></td></t<>	.005	.001 <7		
MAY	.003 <t< td=""><td>.002 <t< td=""><td>.006</td><td>.002 <t< td=""><td>.006</td><td>.003 &lt;7</td></t<></td></t<></td></t<>	.002 <t< td=""><td>.006</td><td>.002 <t< td=""><td>.006</td><td>.003 &lt;7</td></t<></td></t<>	.006	.002 <t< td=""><td>.006</td><td>.003 &lt;7</td></t<>	.006	.003 <7
JUN	.007	.004 <7	.028	.006	.014	.007
JUL	.008	.002 <t< td=""><td>.036</td><td>.004 &lt;7</td><td>.007</td><td>.004 <t< td=""></t<></td></t<>	.036	.004 <7	.007	.004 <t< td=""></t<>
AUG	.003 <t< td=""><td>.001 <t< td=""><td>.033</td><td>.003 &lt;7</td><td></td><td>•</td></t<></td></t<>	.001 <t< td=""><td>.033</td><td>.003 &lt;7</td><td></td><td>•</td></t<>	.033	.003 <7		•
SEP	.005	.001 <t< td=""><td>.064</td><td>.002 <t< td=""><td>.022</td><td>.007</td></t<></td></t<>	.064	.002 <t< td=""><td>.022</td><td>.007</td></t<>	.022	.007
OCT	.002 <t< td=""><td>.001 <t< td=""><td>.006</td><td>.003 <t< td=""><td>.014</td><td>.008</td></t<></td></t<></td></t<>	.001 <t< td=""><td>.006</td><td>.003 <t< td=""><td>.014</td><td>.008</td></t<></td></t<>	.006	.003 <t< td=""><td>.014</td><td>.008</td></t<>	.014	.008
NOV	.001 <t< td=""><td>.002 <t< td=""><td>.066</td><td>.003 <t< td=""><td>.014</td><td>.004 <t< td=""></t<></td></t<></td></t<></td></t<>	.002 <t< td=""><td>.066</td><td>.003 <t< td=""><td>.014</td><td>.004 <t< td=""></t<></td></t<></td></t<>	.066	.003 <t< td=""><td>.014</td><td>.004 <t< td=""></t<></td></t<>	.014	.004 <t< td=""></t<>
DEC	.002 <t< td=""><td>.002 &lt;1</td><td>.016</td><td>.002 <t< td=""><td>.010</td><td>.003 &lt;7</td></t<></td></t<>	.002 <1	.016	.002 <t< td=""><td>.010</td><td>.003 &lt;7</td></t<>	.010	.003 <7
TOTAL NIT	RATES (MG/L	)	DET'N L	IMIT = .020	GUIDELINE =	10.000 (A1)
JAN	.400	.395	.405	.400	.415	.410
FEB	.380	.405	.415	.410	.405	.400
MAR	.385	.390	7/5		.395	.390
APR	.335	.335	.345	.320	•	•

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
				705	770	725
MAY	.325	.325	.340	.325	.330	.325
JUN	.400	.435	.480	.440	.455	.430
JUL	.355	.350	.400	.375	.385	.370
AUG	.195	.200	.215	.195		175
SEP	. 155	.160	.220	.165	.190	.175
ОСТ	.245	.265	.305	.285	.285	.280
NOV	.350	.430	.465	.400	.425	.415
DEC	.400	.405	.425	.400	.420	.410
NITROGEN TO	OT KJELD (MG/L	)	DET'N LI	MIT = .020	GUIDELINE =	N/A
JAN	.230	.320	.330	.300	.300	.290
FEB	.200	.300	.340	.310	.310	.310
MAR	.240	.310	•	•	.330	.300
APR	.250	.270	.280	.270	•	•
MAY	.250	.290	.300	.310	.300	.320
JUN	.250	.260	.270	.260	.290	.290
JUL	.270	.320	.330	.320	.340	.320
AUG	.280	.300	.300	.320	•	•
SEP	.240	.300	.260	.300	.300	.300
OCT	.240	.260	.310	.280	. 290	.270
NOV	.190	.290	.280	.250	.280	.260
DEC	.220	.310	.340	.270	.270	.300
PH (DMNSLES	SS )	•	DET'N LI	IMIT = N/A	GUIDELINE =	6.5-8.5(A4)
HAL	8.210	8.010	8.000	7.790	7.500	7.960
FEB	8.240	7.920	7.990	7.980	8.020	7.970
MAR	8.360	8.380	•	•	8.420	8.380
APR	8.250	8.050	8.090	8.090		•
MAY	8.390	8.350	8.340	8.360	8.410	8.320
JUN	8.080	8.010	8.130	8.010	8.060	8.040
JUL	8.320	8.230	8.260	8.300	8.340	8.210 •
AUG	8.270	8.190	8.220	8.220		
SEP	8.330	8.140	8.170	8.170	8.150	8.140
OCT	8.370	8.250	8.250	8.290	8.280	8.280
NOV	8.260	8.270	8.220	8.330	8.230	8.260
DEC	8.420	8.390	8.390	8.400	8.440	8.410
PHOSPHORUS	FIL REACT (MG/	L )	DET'N L	IMIT = .0005	GUIDELINE =	N/A
JAN	.001 <t< td=""><td>.003</td><td></td><td></td><td>-</td><td>_</td></t<>	.003			-	_
FEB	BDL	.003 T> 200.	•	•	•	•
MAR	.000 <t< td=""><td>.001 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<></td></t<>	.001 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
APR	BDL ST	BDL	•	•	•	•
	.000 <t< td=""><td>.001 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<></td></t<>	.001 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
MAY		.001 -1	•	•	•	•
YAM	.000 <t< td=""><td>_002</td><td>_</td><td>_</td><td></td><td>-</td></t<>	_002	_	_		-
JUN	.000 <t< td=""><td>.002 .000 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<></td></t<>	.002 .000 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
	.000 <t BDL BDL</t 	.002 .000 <t .001 <t< td=""><td>•</td><td></td><td>•</td><td>•</td></t<></t 	•		•	•

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

	RAW	TREATED	SITE 1		SITE 2	
••••			STANDING	FREE FLOW	STANDING	FREE FLOW
OCT	BOL	BOL				
NOV	.000 <1	.002	•		•	•
DEC	.001 <t< td=""><td>.002 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<></td></t<>	.002 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
PHOSPHORU	S TOTAL (MG/L	)	DET'N LI	MIT = .002	GUIDELINE = .	40 (F2)
JAN	.012	.007 <ī		•	•	
FEB	.006 <t< td=""><td>.003 &lt;7</td><td></td><td></td><td>•</td><td>•</td></t<>	.003 <7			•	•
MAR	.010	.004 <t< td=""><td>•</td><td></td><td>•</td><td>•</td></t<>	•		•	•
APR	.008 <7	.003 <t< td=""><td></td><td>•</td><td>•</td><td>•</td></t<>		•	•	•
MAY	T> 800.	.004 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
NUL	.018	.013	•	•	•	•
JUL	.012	.007 <1	•	•	•	•
AUG	.013	.007 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
SEP	.011	.007 <t< td=""><td>•</td><td></td><td>•</td><td>•</td></t<>	•		•	•
OCT	.010	.006 < T	•	•	•	•
NOV	.013	.006 <t< td=""><td></td><td>•</td><td>•</td><td>•</td></t<>		•	•	•
DEC	.011	.006 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
SULPHATE	(MG/L )		DET'N LI	MIT = .200	GUIDELINE = 5	500. (A3)
JAN	26.070	26.900	26.860	26.600	26.510	26.380
FEB	26.880	29.140	28.840	29.030	28.900	28.840
MAR	26.230	27.020			26.580	27.740
APR	26.160	28.370	28.090	28.060	•	•
MAY	26.210	26.460	26.540	27.160	26.700	26.760
JUN	26.370	26.930	29.160	26.970	27.170	27.100
JUL	25.300	26.680	26.770	26.800	26.960	27.000
AUG	25.940	27.490	27.700	27.740		•
SEP	24.820	27.150	27.780	27.740	26.700	26.530
OCT	26.230	26.720	26.870	26.840	27. <i>7</i> 50	26.950
NOV	26.420	29.930	30.090	30.170	30.120	29.730
DEC	27.420	28.210	28.150	28.180	27.640	28.360
TURBIDITY	(FTU )		DET'N LI	MIT = .02	GUIDELINE = '	1.00 (A1)
NAL	1.880	.480	.240	.500	.200	.680
FEB	1.150	.370	.400	.390	.750	.240
MAR	.850	.190 <7			.340	.370
APR	1.230	.520	.500	.520		
MAY	1.330	.840	.440	.530	.680	.530
JUN	1.370	.370	.450	.340	.550	.480
JUL	1.130	.850	.960	.450	.520	.440
AUG	1.840	.990	1.340	1.050		
SEP	1.460	.490	.400	.410	.370	.270
007	1.050	.350	.400	.400	.400	.350
NOV	2.600	.260	.390	.240 <t< td=""><td>.340</td><td>.270</td></t<>	.340	.270
DEC	1.740	.200 <t< td=""><td>.320</td><td>.230 <t< td=""><td>.240 &lt;7</td><td>.270</td></t<></td></t<>	.320	.230 <t< td=""><td>.240 &lt;7</td><td>.270</td></t<>	.240 <7	.270
520	40	.200 1	.320	.230 \1	.240 \1	.210

TABLE 5 DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

	RAW	TREATED	SITE 1		SITE	2
			STANDING	FREE FLOW	STANDING	FREE FLOW
	METALS		• • • • • • • • • • • • • • • • • • • •			
SILVER	(UG/L )		DET'N L	LIMIT = .020	GUIDELIN	E = 50. (A1)
JAN	.030 <7	.050 <t< td=""><td>.070</td><td>&lt;т .090</td><td><t .05<="" td=""><td>T&gt; 060. T&gt; 0</td></t></td></t<>	.070	<т .090	<t .05<="" td=""><td>T&gt; 060. T&gt; 0</td></t>	T> 060. T> 0
FEB	BDL	BDL	.060	<t .040<="" td=""><td><t .03<="" td=""><td>0 <t .030="" <t<="" td=""></t></td></t></td></t>	<t .03<="" td=""><td>0 <t .030="" <t<="" td=""></t></td></t>	0 <t .030="" <t<="" td=""></t>
MAR	.040 <t< td=""><td>BDL</td><td></td><td></td><td>BD</td><td>L BDL</td></t<>	BDL			BD	L BDL
APR	.030 <7	.040 <t< td=""><td>.080</td><td><t bdl<="" td=""><td></td><td>•</td></t></td></t<>	.080	<t bdl<="" td=""><td></td><td>•</td></t>		•
MAY	BDL	BDL	.040	<t .030<="" td=""><td><t bd<="" td=""><td>L BDL</td></t></td></t>	<t bd<="" td=""><td>L BDL</td></t>	L BDL
JUN	BDL	BDL	BOL	BDL	BO	L BDL
JUL	BDL	BDL	BOL	BDL	BD	L BDL
AUG	BDL	BDL	BOL	BDL		•
SEP	BDL	BDL	BDL	BDL	BD	L BDL
OCT	BDL	BDL	BDL	BDL	BD	L BDL
NOV	BDL	BDL	BDL	BDL	BD	L BOL
DEC	BDL	BDL	BDL	BDL	BD	L BDL
ALUMINU	M (UG/L )		DET'N I	LIMIT = .050	GUIDELIN	E = 100.(A4)
JAN	19.720	61.480	64.960	61.480	58.00	0 56.840
FEB	7.772	59.160	56.840	56.840	44.08	
MAR	11.020	75.400			71.92	
APR	6.148	85.840	83.520	80.040		
HAY	9.860	110.200	127.600	111.360	150.80	0 116.000
JUN	9.800	87.000	98.000	96.000	97.00	
JUL	7.720	129.000	112.500	109.620	108.15	
AUG	7.700	150.000	150.000	160.000		
SEP	7.200	210.000	180.000	190.000	180.00	180.000
ОСТ	7.200	100.000	73.000	87.000	82.00	0 85.000
NOV	20.000	57.000	64.000	57.000	58.00	
DEC	16.000	63.000	66.000	56.000	53.00	51.000
ARSENIC	(UG/L )		DET'N I	LIMIT = 0.050	GUIDELIN	E = 50.0 (A1)
144	900 47	4 000 47	950	٠٠. ٥٥٥	-T 77	1 100
JAN	.800 <t< td=""><td>1.000 <t< td=""><td>.850 ·</td><td></td><td></td><td>20 <t 1.100<="" td=""></t></td></t<></td></t<>	1.000 <t< td=""><td>.850 ·</td><td></td><td></td><td>20 <t 1.100<="" td=""></t></td></t<>	.850 ·			20 <t 1.100<="" td=""></t>
FEB	1.900	2.100	2.200	1.500	1.70	
MAR	1.600	2.000	4 700	1.300	2.30	1.000
APR	1.200	1.300	1.300		1 00	1.600
YAH	1.600 1.400	1.500 1.400	1.600 1.900	1.600 1.700	1.90 1.60	
JUL	1.400	1.580	1.380	1.740	1.52	
AUG SEP	1.500 1.100	1.900 1.600	1.500	1.800 1.300	1.50	
OCT	.880 <t< td=""><td>1.300</td><td>1.200</td><td>1.100</td><td></td><td>1.300 T .990 <t< td=""></t<></td></t<>	1.300	1.200	1.100		1.300 T .990 <t< td=""></t<>
NOV	.850 <t< td=""><td>1.300</td><td>1.100 1.200</td><td>1.000</td><td></td><td>00 <t 1.100<="" td=""></t></td></t<>	1.300	1.100 1.200	1.000		00 <t 1.100<="" td=""></t>
DEC	1.100	1.300	1.100	.940		7> 088.
BARIUM				LIMIT = 0.020		E = 1000. (A1)
			VE. 11		ww , w m t <sub>0</sub> a m	
JAN	23.000	23.000	24.000	24.000	24.00	00 23.000
FEB	21.000	23.000	23.000	22.000	22.00	
MAR	24.000	23.000	•	•	23.00	00 23.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

DISTRIBUTION SYSTEM

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1			SITE 2			
	********		STANDING	FREE	FLOW	STANDING	FREE	FLOW	
ADD	2/ 000	37,000	3/ 000		23.000				
APR May	24.000 22.000	23.000 22.000	24.000 22.000		22.000			21.000	
JUN	25.000	24.000	25.000		24.000			24.000	
JUL	25.000	24.450	25.430		25.600			25.020	
AUG	24.000	24.430	25.000		25.000		•	23.020	
SEP	23.000	22.000	23.000		23.000			22.000	
OCT	21.000	22.000	22.000		22.000			21.000	
NOV	22,000	22.000	23.000		22.000			22.000	
DEC	25.000	24.000	24.000		24.000			24.000	
BORON (UG	/L )	•	DET'N	LIMIT = 0.	200	GUIDELINE	= 5000. (A	1)	
JAN	48.000	46.000	28.000		46.000	30.000		49.000	
FEB	27.000	25.000	77.000		29.000			26.000	
MAR	71.000	100.000				95.000		7.000	
APR	53.000	170.000	45.000		55.000				
MAY	27.000	29.000	31.000		27.000			26.000	
JUN	40.000	27.000	53.000		54.000			28.000	
JUL	55.820	34.200	38.510		43.220			30.410	
AUG	55.000	57.000	46.000		43.000				
SEP	45.000	43.000	32.000		30.000		:	34.000	
OCT	25,000	34.000	40.000		30.000			26.000	
NOV	25.000	33.000	38.000		24.000			25.000	
DEC	28.000	28.000	27.000		25.000			24.000	
ERYLLIUM	(UG/L	)	DET'N	LIMIT = 0.	010	GUIDELINE	= N/A		· <b></b>
JAN	.130	ст .050	<t bol<="" td=""><td></td><td>BDL</td><td>BDL</td><td></td><td>BDL</td><td></td></t>		BDL	BDL		BDL	
FEB	BDL	BDL	.190	<b>&lt;</b> T	BDL	BOL		.040	<1
MAR	.090 <	cT .220	<t .<="" td=""><td></td><td></td><td>.150</td><td><t< td=""><td>.120</td><td>&lt;1</td></t<></td></t>			.150	<t< td=""><td>.120</td><td>&lt;1</td></t<>	.120	<1
APR	.060 -	cT .040			BDL				
MAY	.020 -	cT .030	<t .030<="" td=""><td><t< td=""><td>BDL</td><td>.100</td><td>&lt;1</td><td>BDL</td><td></td></t<></td></t>	<t< td=""><td>BDL</td><td>.100</td><td>&lt;1</td><td>BDL</td><td></td></t<>	BDL	.100	<1	BDL	
JUN	BOL	BDL	.100	<t< td=""><td>BDL</td><td>BDL</td><td></td><td>BDL</td><td></td></t<>	BDL	BDL		BDL	
JUL	.110 <	T BDL	BOL		BDL		<t< td=""><td>BDL</td><td></td></t<>	BDL	
AUG	.100 <				BDL				
SEP	.120 -			<⊺	.040		<1	.090	<
OCT	.040 <				.030			BDL	
NOV	BDL	BDL	.020		.040			.030	<1
DEC	BDL	BDL	BDL		BDL			BDL	
ADMIUM (	UG/L )		DET'N	LIMIT = 0.	050	GUIDELINE	= 5.000 (A	1)	• - •
JAN	BDL	BOL	BDL		BOL	BDL		BDL	
FEB	BDL	BOL	BDL		BDL	BOL		BDL	
MAR	BDL	BOL				BDL		BDL	
APR	BDL	BDL	BDL		BDL				
MAY	BDL	.070	<t bdl<="" td=""><td></td><td>BDL</td><td></td><td>&lt;1</td><td>BDL</td><td></td></t>		BDL		<1	BDL	
JUN	.150 <	rt .120 ·	<t .320<="" td=""><td>&lt;⊺</td><td>.090</td><td><t .180<="" td=""><td>&lt;1</td><td>.090</td><td>&lt;1</td></t></td></t>	<⊺	.090	<t .180<="" td=""><td>&lt;1</td><td>.090</td><td>&lt;1</td></t>	<1	.090	<1
JUL	BOL	BDL	.160	<t< td=""><td>.100</td><td></td><td></td><td>.090</td><td>&lt;1</td></t<>	.100			.090	<1
AUG	.170 <	τ .100 ·			.190				

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1			SITE 2			
			STANDING	FREE FLOW	· • • • • •	STANDING	FREE	FLOW	
SEP	BDL	BDL	BOL	BOI	L	BDL		BDL	
OCT	BDL	8DL	BDL	BDI	L	BDL		BDL	
NOV	BDL	BOL	BDL	.060	T> 0	BDL		BDL	
DEC	BDL	BDL	BOL	BDI	L	BOL		.130	<t< td=""></t<>
COBALT (UG	G/L )		DET'N	LIMIT = 0.020		GUIDELINE	= N/A		
JAN	.200 <7	.160 <t< td=""><td>.110</td><td></td><td>T&gt; 0</td><td>.170</td><td></td><td>.160</td><td></td></t<>	.110		T> 0	.170		.160	
FEB	.310 <t< td=""><td>.270 <t< td=""><td>.240</td><td><t .250<="" td=""><td>T&gt; 0</td><td>.290</td><td>&lt;⊺</td><td>.270</td><td>&lt;1</td></t></td></t<></td></t<>	.270 <t< td=""><td>.240</td><td><t .250<="" td=""><td>T&gt; 0</td><td>.290</td><td>&lt;⊺</td><td>.270</td><td>&lt;1</td></t></td></t<>	.240	<t .250<="" td=""><td>T&gt; 0</td><td>.290</td><td>&lt;⊺</td><td>.270</td><td>&lt;1</td></t>	T> 0	.290	<⊺	.270	<1
MAR	.040 <t< td=""><td>BDL</td><td>_•</td><td></td><td></td><td>.110</td><td>&lt;⊺</td><td>.130</td><td><t< td=""></t<></td></t<>	BDL	_•			.110	<⊺	.130	<t< td=""></t<>
APR	.050 <t< td=""><td>.080 <t< td=""><td>.090</td><td><t .050<="" td=""><td>T&gt; 0</td><td>•</td><td></td><td>•</td><td></td></t></td></t<></td></t<>	.080 <t< td=""><td>.090</td><td><t .050<="" td=""><td>T&gt; 0</td><td>•</td><td></td><td>•</td><td></td></t></td></t<>	.090	<t .050<="" td=""><td>T&gt; 0</td><td>•</td><td></td><td>•</td><td></td></t>	T> 0	•		•	
MAY	.310 <t< td=""><td>.230 <t< td=""><td>.210</td><td><t .210<="" td=""><td>T&gt; 0</td><td>.300</td><td>&lt;1</td><td>.220</td><td><t< td=""></t<></td></t></td></t<></td></t<>	.230 <t< td=""><td>.210</td><td><t .210<="" td=""><td>T&gt; 0</td><td>.300</td><td>&lt;1</td><td>.220</td><td><t< td=""></t<></td></t></td></t<>	.210	<t .210<="" td=""><td>T&gt; 0</td><td>.300</td><td>&lt;1</td><td>.220</td><td><t< td=""></t<></td></t>	T> 0	.300	<1	.220	<t< td=""></t<>
JUN	.030 <t< td=""><td>.060 <t< td=""><td>.030</td><td><t .130<="" td=""><td>T&gt; 0</td><td>BOL</td><td></td><td>BOL</td><td></td></t></td></t<></td></t<>	.060 <t< td=""><td>.030</td><td><t .130<="" td=""><td>T&gt; 0</td><td>BOL</td><td></td><td>BOL</td><td></td></t></td></t<>	.030	<t .130<="" td=""><td>T&gt; 0</td><td>BOL</td><td></td><td>BOL</td><td></td></t>	T> 0	BOL		BOL	
JUL	.210 <t< td=""><td>.200 <t< td=""><td>.230</td><td><t .210<="" td=""><td>T&gt; 0</td><td>.180</td><td>&lt;1</td><td>.260</td><td>&lt;1</td></t></td></t<></td></t<>	.200 <t< td=""><td>.230</td><td><t .210<="" td=""><td>T&gt; 0</td><td>.180</td><td>&lt;1</td><td>.260</td><td>&lt;1</td></t></td></t<>	.230	<t .210<="" td=""><td>T&gt; 0</td><td>.180</td><td>&lt;1</td><td>.260</td><td>&lt;1</td></t>	T> 0	.180	<1	.260	<1
AUG	.090 <t< td=""><td>.100 <t< td=""><td>. 190</td><td>&lt;7 .096</td><td>T&gt; 0</td><td></td><td></td><td></td><td></td></t<></td></t<>	.100 <t< td=""><td>. 190</td><td>&lt;7 .096</td><td>T&gt; 0</td><td></td><td></td><td></td><td></td></t<>	. 190	<7 .096	T> 0				
SEP	.100 <t< td=""><td>.090 <t< td=""><td>.110</td><td><t .041<="" td=""><td>T&gt; 0</td><td>.050</td><td><t< td=""><td>.040</td><td><t< td=""></t<></td></t<></td></t></td></t<></td></t<>	.090 <t< td=""><td>.110</td><td><t .041<="" td=""><td>T&gt; 0</td><td>.050</td><td><t< td=""><td>.040</td><td><t< td=""></t<></td></t<></td></t></td></t<>	.110	<t .041<="" td=""><td>T&gt; 0</td><td>.050</td><td><t< td=""><td>.040</td><td><t< td=""></t<></td></t<></td></t>	T> 0	.050	<t< td=""><td>.040</td><td><t< td=""></t<></td></t<>	.040	<t< td=""></t<>
OCT	.090 <t< td=""><td>.090 <t< td=""><td>.090</td><td>&lt;7 .07</td><td>T&gt; 0</td><td>.100</td><td><t< td=""><td>.100</td><td>&lt;1</td></t<></td></t<></td></t<>	.090 <t< td=""><td>.090</td><td>&lt;7 .07</td><td>T&gt; 0</td><td>.100</td><td><t< td=""><td>.100</td><td>&lt;1</td></t<></td></t<>	.090	<7 .07	T> 0	.100	<t< td=""><td>.100</td><td>&lt;1</td></t<>	.100	<1
NOV	.090 <t< td=""><td>.220 &lt;7</td><td>.060</td><td><t .050<="" td=""><td>0 <t< td=""><td>.100</td><td><t< td=""><td>.210</td><td>&lt;1</td></t<></td></t<></td></t></td></t<>	.220 <7	.060	<t .050<="" td=""><td>0 <t< td=""><td>.100</td><td><t< td=""><td>.210</td><td>&lt;1</td></t<></td></t<></td></t>	0 <t< td=""><td>.100</td><td><t< td=""><td>.210</td><td>&lt;1</td></t<></td></t<>	.100	<t< td=""><td>.210</td><td>&lt;1</td></t<>	.210	<1
DEC	.090 <t< td=""><td>.130 <t< td=""><td>.050</td><td><t .14<="" td=""><td>0 <t< td=""><td>.110</td><td>&lt;1</td><td>.140</td><td><t< td=""></t<></td></t<></td></t></td></t<></td></t<>	.130 <t< td=""><td>.050</td><td><t .14<="" td=""><td>0 <t< td=""><td>.110</td><td>&lt;1</td><td>.140</td><td><t< td=""></t<></td></t<></td></t></td></t<>	.050	<t .14<="" td=""><td>0 <t< td=""><td>.110</td><td>&lt;1</td><td>.140</td><td><t< td=""></t<></td></t<></td></t>	0 <t< td=""><td>.110</td><td>&lt;1</td><td>.140</td><td><t< td=""></t<></td></t<>	.110	<1	.140	<t< td=""></t<>
CHROMIUM (	(UG/L )		DET'N	LIMIT = 0.100		GUIDELINE	= 50. (A1)	)	
JAN	5.500	5.300	.660	<t 4.70<="" td=""><td>0</td><td>1.100</td><td></td><td>5.200</td><td></td></t>	0	1.100		5.200	
FEB	.430 <t< td=""><td>.280 <t< td=""><td>6.200</td><td>.65</td><td>0 <t< td=""><td>1.500</td><td></td><td>.530</td><td><t< td=""></t<></td></t<></td></t<></td></t<>	.280 <t< td=""><td>6.200</td><td>.65</td><td>0 <t< td=""><td>1.500</td><td></td><td>.530</td><td><t< td=""></t<></td></t<></td></t<>	6.200	.65	0 <t< td=""><td>1.500</td><td></td><td>.530</td><td><t< td=""></t<></td></t<>	1.500		.530	<t< td=""></t<>
MAR	4.600	8.200				7.400		7.300	
APR	1.200	5.300	.800	<t 1.30<="" td=""><td>0</td><td></td><td></td><td>•</td><td></td></t>	0			•	
MAY	1.900	2.200	2.600	1.80	0	.460	<1	1.500	
JUN	3.400	.910 <t< td=""><td>5.500</td><td>5.90</td><td>0</td><td>3.100</td><td></td><td>.850</td><td>&lt; T</td></t<>	5.500	5.90	0	3.100		.850	< T
JUL	6.320	1.810	2.340	3.64	0	5.980		.750 ·	<t< td=""></t<>
AUG	5.600	5.600	3.400	3.30	0				
SEP	5.400	5.100	2.000	1.60	0	4.800		2.400	
OCT	1.100	3.400	2.300	1.90	0	1.300		1.100	
NOV	.400 <t< td=""><td>1.600</td><td>2.800</td><td>.17</td><td>0 &lt;1</td><td>.250</td><td>&lt;1</td><td>.150</td><td>&lt;1</td></t<>	1.600	2.800	.17	0 <1	.250	<1	.150	<1
DEC	.660 <t< td=""><td>BDL</td><td>BOL</td><td>BD</td><td>L</td><td>BDL</td><td></td><td>BDL</td><td></td></t<>	BDL	BOL	BD	L	BDL		BDL	
COPPER (UC	G/L )		DET'N	LIMIT = .100		GUIDELINE	= 1000 (A	3)	
JAN	21.000	17.000	130.000	14.00	0	13.000		4.100	
FEB	20.000	39.000	19.000	180.00		13.000		3.600	
MAR	19.000	16.000				9.800		2.800	
APR	12.000	19.000	120.000	13.00	0				
MAY	17.000	4.300	52.000	5.00		5.700		2.100	
JUN	31.000	4.600	78.000	12.00		10.000		2.500	
JUL	32.530	22.880	98.310	13.03		10.430		3.510	
AUG	46.000	10.000	76.000	12.00					
SEP	36.000	7.500	53.000	6.90		9.500		3.100	
								4.100	
	31,000	5.300	31 NNN	חזי ס	u	A. / UU			
OCT	31.000 33.000	5.300 5.100	31.000 87.000	9.30 8.30		8.700 12.000		3.200	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

	RAW		TREATED		SITE 1				SITE 2			
					STANDING	FREE	FLOW		STANDING	FREE	FLOW	
IRON (UG/L	)				DET'N L	IMIT = 4.	000		GUIDELINE =	300. (A	3)	
JAN	32.000	<t< td=""><td>7.300</td><td>&lt;1</td><td>23.000 &lt;</td><td>व</td><td>11.000</td><td><t< td=""><td>30.000 &lt;</td><td>T</td><td>26.000</td><td><t< td=""></t<></td></t<></td></t<>	7.300	<1	23.000 <	व	11.000	<t< td=""><td>30.000 &lt;</td><td>T</td><td>26.000</td><td><t< td=""></t<></td></t<>	30.000 <	T	26.000	<t< td=""></t<>
FEB	9.000	<t< td=""><td>8.300</td><td>&lt;1</td><td>15.000 &lt;</td><td>ा</td><td>9.900</td><td>&lt;1</td><td>31.000 &lt;</td><td>T</td><td>37.000</td><td>&lt;1</td></t<>	8.300	<1	15.000 <	ा	9.900	<1	31.000 <	T	37.000	<1
MAR	17.000	<t< td=""><td>8.100</td><td>&lt;1</td><td>•</td><td></td><td></td><td></td><td>62.000</td><td></td><td>64.000</td><td></td></t<>	8.100	<1	•				62.000		64.000	
APR	BDL		BDL		BDL		5.500	<1	•			
MAY	BDL		BDL		BDL		BDL		59.000		28.000	<1
JUN	11.000	<t< td=""><td>6.700</td><td>&lt;1</td><td>7.100 &lt;</td><td>ा</td><td>7.000</td><td><t< td=""><td>44.000 &lt;</td><td>T</td><td>50.000</td><td>&lt;1</td></t<></td></t<>	6.700	<1	7.100 <	ा	7.000	<t< td=""><td>44.000 &lt;</td><td>T</td><td>50.000</td><td>&lt;1</td></t<>	44.000 <	T	50.000	<1
JUL	7.480	<t< td=""><td>5.740</td><td><t< td=""><td>6.170 &lt;</td><td>ा</td><td>5.860</td><td><t< td=""><td>30.440 &lt;</td><td>T</td><td>24.270</td><td>&lt;1</td></t<></td></t<></td></t<>	5.740	<t< td=""><td>6.170 &lt;</td><td>ा</td><td>5.860</td><td><t< td=""><td>30.440 &lt;</td><td>T</td><td>24.270</td><td>&lt;1</td></t<></td></t<>	6.170 <	ा	5.860	<t< td=""><td>30.440 &lt;</td><td>T</td><td>24.270</td><td>&lt;1</td></t<>	30.440 <	T	24.270	<1
AUG	8.200	<t< td=""><td>BDL</td><td></td><td>BDL</td><td></td><td>5.400</td><td><t< td=""><td>•</td><td></td><td></td><td></td></t<></td></t<>	BDL		BDL		5.400	<t< td=""><td>•</td><td></td><td></td><td></td></t<>	•			
SEP	6.400	<t< td=""><td>BDL</td><td></td><td>8.800 &lt;</td><td><b>:</b>T</td><td>6.000</td><td><b>&lt;</b>T</td><td>37.000 &lt;</td><td>T</td><td>30.000</td><td><b>&lt;</b>T</td></t<>	BDL		8.800 <	<b>:</b> T	6.000	<b>&lt;</b> T	37.000 <	T	30.000	<b>&lt;</b> T
OCT	11.000	<t< td=""><td>7.200</td><td><t< td=""><td>BDL</td><td></td><td>BDL</td><td></td><td>34.000 &lt;</td><td>ī</td><td>31.000</td><td>&lt;1</td></t<></td></t<>	7.200	<t< td=""><td>BDL</td><td></td><td>BDL</td><td></td><td>34.000 &lt;</td><td>ī</td><td>31.000</td><td>&lt;1</td></t<>	BDL		BDL		34.000 <	ī	31.000	<1
NOV	33.000	<t< td=""><td>BDL</td><td></td><td>BDL</td><td></td><td>6.600</td><td><b>&lt;</b>T</td><td>45.000 &lt;</td><td>T</td><td>46.000</td><td><t< td=""></t<></td></t<>	BDL		BDL		6.600	<b>&lt;</b> T	45.000 <	T	46.000	<t< td=""></t<>
DEC	26.000	<1	BDL		BOL		BDL		44.000 <	T	50.000	<b>&lt;</b> T
MERCURY (UG	G/L )				DET'N L	.IMIT = 0.	010		GUIDELINE =	1.000	(A1)	
JAN	BDL		.020	<b>&lt;</b> T	_		BDL		_		.030	<t< td=""></t<>
FEB	.020	<1	.040				.030	<t< td=""><td>_</td><td></td><td>BDL</td><td></td></t<>	_		BDL	
MAR	.070	·	.040								.050	
APR	BDL		BDL		•		BDL					
HAY	BDL		BDL				BDL		-		BDL	
JUN	BDL		BDL		•		BDL				BDL	
JUL	.020	<1	.020	<t< td=""><td>•</td><td></td><td>.030</td><td><t< td=""><td>•</td><td></td><td>.020</td><td></td></t<></td></t<>	•		.030	<t< td=""><td>•</td><td></td><td>.020</td><td></td></t<>	•		.020	
AUG	BDL	•	BDL	•	•		BDL	•••	•			
SEP	BOL		BOL		•		BDL		•		BDL	
OCT	BDL		BOL		•		BDL		•		BDL	
NOV	BDL		BDL		•		BDL		•		BDL	
DEC	.020	<t< td=""><td>.020</td><td><t< td=""><td>•</td><td></td><td>.020</td><td><b>∠</b>T</td><td>•</td><td></td><td>.020</td><td></td></t<></td></t<>	.020	<t< td=""><td>•</td><td></td><td>.020</td><td><b>∠</b>T</td><td>•</td><td></td><td>.020</td><td></td></t<>	•		.020	<b>∠</b> T	•		.020	
•••••					•				•			
MANGANESE (	UG/L	)			DET'N L	.0. = TIMI	50		GUIDELINE =	50.0 (A	3)	
JAN	2.500		.300	<1	.360 <	T .	.410	<1	1.200		1.100	
FEB	1.100		.120	<b>&lt;</b> T	.250 <	ा	.320	<t< td=""><td>1.000</td><td></td><td>1.000</td><td></td></t<>	1.000		1.000	
MAR	1.300		.300	<1					1.500		1.600	
APR	.850		.160	<b>&lt;</b> T	.270 <	T	.370	<1				
HAY	1.300		.120	<t< td=""><td>.220 &lt;</td><td>Ţ</td><td>.180</td><td><t< td=""><td>1.200</td><td></td><td>.790</td><td></td></t<></td></t<>	.220 <	Ţ	.180	<t< td=""><td>1.200</td><td></td><td>.790</td><td></td></t<>	1.200		.790	
JUN	1.700		.530		.630		.720		1.600		1.700	
JUL	1.910		.760		.870		.910		1.770		1.690	
AUG	1.500		.350	<1	.540		.480	<t< td=""><td>•</td><td></td><td></td><td></td></t<>	•			
SEP	1.000		.320	<1	.540		.480	<b>&lt;</b> T	1.500		1.400	
OCT	1.200		.340	<1	.370 <	T	.300		1.100		1.300	
NOV	3.800		.260	<b>&lt;</b> T	.400 <	:T	.360		1.500		1.200	
DEC	2.800		.300	<b>&lt;</b> T	.270 <	ī	.310	<1	1.100		1.200	
MOLYBDENUM	(UG/L	)			DET'N L	IMIT = 0.	020		GUIDELINE =	N/A		
JAN	1.200		1.300		1.300		1.300		1.200		1.300	
	1.500		1.500		1.500				1.600		1.500	
FEB	1.500		1.500		1.200		1,600					
MAR	1.500		1.700		1.500		1.600		1.500		1.500	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
MAY	1.500	1.500	1.500	1.400	1.300	1.300
JUN	1,400	1.600	1,600	1.400	1.600	1.500
JUL	1.370	1.800	1.510	1.540	1.720	1.630
AUG	1.500	1.400	1.400	1.400	•	•
SEP	1.300	1.300	1.100	1.200	1.100	1.300
OCT	1.100	1.200	1.200	1.200	1.300	1.200
NOV	1.100	1.200	1.200	1.100	1.200	1.200
	1.300	1.300	1.300	1.200	1.200	1.200
NICKEL (UC	G/L )		DET'N LI	MIT = 0.100	GUIDELINE =	50. (F3)
JAN	1.600 <t< td=""><td>1.800 <t< td=""><td>2.300</td><td>1.700 &lt;</td><td>2.400</td><td>1.700 <t< td=""></t<></td></t<></td></t<>	1.800 <t< td=""><td>2.300</td><td>1.700 &lt;</td><td>2.400</td><td>1.700 <t< td=""></t<></td></t<>	2.300	1.700 <	2.400	1.700 <t< td=""></t<>
FEB	2.600	2.000 <t< td=""><td>2.000 <t< td=""><td>5.800</td><td>2.700</td><td>2.400</td></t<></td></t<>	2.000 <t< td=""><td>5.800</td><td>2.700</td><td>2.400</td></t<>	5.800	2.700	2.400
MAR	1.600 <t< td=""><td>1.100 <t< td=""><td>•</td><td>•</td><td>1.600 <t< td=""><td>1.300 <t< td=""></t<></td></t<></td></t<></td></t<>	1.100 <t< td=""><td>•</td><td>•</td><td>1.600 <t< td=""><td>1.300 <t< td=""></t<></td></t<></td></t<>	•	•	1.600 <t< td=""><td>1.300 <t< td=""></t<></td></t<>	1.300 <t< td=""></t<>
APR	.880 <t< td=""><td>1.200 <t< td=""><td>2.100</td><td>.710 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	1.200 <t< td=""><td>2.100</td><td>.710 <t< td=""><td>•</td><td>•</td></t<></td></t<>	2.100	.710 <t< td=""><td>•</td><td>•</td></t<>	•	•
MAY	2.500	2.200	2.900	2.800	3.000	2.800
JUN	1.300 <t< td=""><td>1.600 <t< td=""><td>3.100</td><td>1.400 <t< td=""><td>1.600 <t< td=""><td>1.400 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	1.600 <t< td=""><td>3.100</td><td>1.400 <t< td=""><td>1.600 <t< td=""><td>1.400 <t< td=""></t<></td></t<></td></t<></td></t<>	3.100	1.400 <t< td=""><td>1.600 <t< td=""><td>1.400 <t< td=""></t<></td></t<></td></t<>	1.600 <t< td=""><td>1.400 <t< td=""></t<></td></t<>	1.400 <t< td=""></t<>
JUL	3.280	3.160	4.700	3.320	3.810	3.460
AUG	.880 <t< td=""><td>.760 <t< td=""><td>2.900</td><td>.710 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	.760 <t< td=""><td>2.900</td><td>.710 <t< td=""><td>•</td><td>•</td></t<></td></t<>	2.900	.710 <t< td=""><td>•</td><td>•</td></t<>	•	•
SEP	1.300 <t< td=""><td>1.000 <t< td=""><td>3.700</td><td>1.200 <t< td=""><td></td><td>.970 <t< td=""></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>3.700</td><td>1.200 <t< td=""><td></td><td>.970 <t< td=""></t<></td></t<></td></t<>	3.700	1.200 <t< td=""><td></td><td>.970 <t< td=""></t<></td></t<>		.970 <t< td=""></t<>
OCT	.910 <t< td=""><td>.730 <t< td=""><td>4.300</td><td>.760 <t< td=""><td><b>1.300</b> <t< td=""><td>1.000 &lt;ī</td></t<></td></t<></td></t<></td></t<>	.730 <t< td=""><td>4.300</td><td>.760 <t< td=""><td><b>1.300</b> <t< td=""><td>1.000 &lt;ī</td></t<></td></t<></td></t<>	4.300	.760 <t< td=""><td><b>1.300</b> <t< td=""><td>1.000 &lt;ī</td></t<></td></t<>	<b>1.300</b> <t< td=""><td>1.000 &lt;ī</td></t<>	1.000 <ī
NOV	.850 <t< td=""><td>.400 <t< td=""><td>1.800 <t< td=""><td>.950 <t< td=""><td>2.500</td><td>.690 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.400 <t< td=""><td>1.800 <t< td=""><td>.950 <t< td=""><td>2.500</td><td>.690 <t< td=""></t<></td></t<></td></t<></td></t<>	1.800 <t< td=""><td>.950 <t< td=""><td>2.500</td><td>.690 <t< td=""></t<></td></t<></td></t<>	.950 <t< td=""><td>2.500</td><td>.690 <t< td=""></t<></td></t<>	2.500	.690 <t< td=""></t<>
DEC	1.400 <t< td=""><td>1.700 &lt;ī</td><td>1.800 <t< td=""><td>1.500 <t< td=""><td>2.300</td><td>1.200 <t< td=""></t<></td></t<></td></t<></td></t<>	1.700 <ī	1.800 <t< td=""><td>1.500 <t< td=""><td>2.300</td><td>1.200 <t< td=""></t<></td></t<></td></t<>	1.500 <t< td=""><td>2.300</td><td>1.200 <t< td=""></t<></td></t<>	2.300	1.200 <t< td=""></t<>
LEAD (UG/L	L )		DET'N LI	MIT = 0.050	GUIDELINE =	50. (A1)
JAN	.280	.420	8.200	.700	1.100	.340
FEB	.570	1.400	1.700	9.500	1.800	.930
MAR	.410	.610		•	1.300	.330
APR	.190 <t< td=""><td>.490</td><td>7.700</td><td>.970</td><td>•</td><td>•</td></t<>	.490	7.700	.970	•	•
MAY	.930	.460	3.900	.560	.660	.310
JUN	.930	.350	7.000	1.100	1.200	.220
JUL	1.090	1.120	7 <b>.79</b> 0	1.580	1.930	.500
AUG	.980	1.000	8.300	1.400	•	•
SEP	.540	2.800	5.400	.700	.940	.290
OCT	.410	1.800	2.300	.960	1.100	.330
NOV	.400	.600	5.600	.450	.600	.220
DEC	.340 <t< td=""><td>.760</td><td>5.600</td><td>.600</td><td>.650</td><td>.120 <t< td=""></t<></td></t<>	.760	5.600	.600	.650	.120 <t< td=""></t<>
ANTIMONY (	(UG/L )		DET'N LI	MIT = .050	GUIDELINE =	146. (D4)
JAN	.510	.550	.450	.500	.450	.530
FEB	.820	.790	.840	.900	.820	.930
MAR	.890	.780		•	.900	.820
APR	.740	.780	.730	.730	•	•
MAY	.940	1.000	.870	.890	.950	.840
JUN	.840	.690	.810	.860	.830	.820
JUL	.870	.800	.870	.950	.820	.810
AUG	.850	.780	.920	.740	•	•
						.580

TABLE 5 DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989 DISTRIBUTION SYSTEM

RAW TREATED SITE 1 SITE 2 STANDING FREE FLOW STANDING FREE FLOW .600 .630 .580 .560 OCT .620 .750 .530 .530 .830 .480 .610 NOV .450 <T .620 .630 .500 <T .500 <T DEC DET'N LIMIT = 0.200 GUIDELINE = 10. (A1) SELENIUM (UG/L ) BDL 1.900 <T 1.400 <T 2.300 <T JAN 1,400 <T 1.000 <T .920 <T FE8 4.800 <T 4.000 <T .850 <T 3.500 <T BDL 3.800 <T 4.500 <T 3.300 <T MAR 2.200 <T 3.200 <T APR 2.800 <T 3.400 <T 3.600 <T 6.400 <T 2.500 <T 4.500 <T 5.600 <T MAY 2.500 <T 2.500 <T 4.600 <T JUN BDL 3.900 <T 4.400 <T 2.400 <T 2.100 <T BDL 1.660 <T JUL BDL BDL 1.660 <T BDL AUG BDL 2.900 <T 1.500 <T 1.900 <T BDL BDL 1.100 <T 1.300 <T SEP BDL BDL BDL BDL 1.300 <7 OCT 1.200 <T 1.100 <T 1.400 <T 1.100 <T 1.100 <T BDL 1.200 <T 1.700 <T NOV BDL RDI BDL BDL BDL BDL BDL \_\_\_\_\_\_ STRONTIUM (UG/L ) DET'N LIMIT = .050 GUIDELINE = N/A JAN 180.000 180.000 180,000 170.000 180.000 170,000 170.000 FEB 170.000 170.000 170.000 170.000 170,000 MAR 180.000 180,000 180.000 180.000 APR 180.000 180,000 180,000 180,000 170.000 170.000 180.000 170.000 170,000 MAY 170.000 170.000 170,000 170,000 190.000 170.000 JUN 160.000 JUL 193.000 188.700 194.920 197.110 194.920 189.550 180.000 AUG 180.000 180.000 180.000 SEP 180.000 190.000 180.000 180.000 180.000 180.000 180.000 OCT 170.000 180.000 190,000 180.000 NOV 180.000 180.000 180.000 170.000 170.000 180.000 170,000 170,000 170,000 180,000 180.000 180,000 \_\_\_\_\_ TITANIUM (UG/L ) DET'N LIMIT = .050 GUIDELINE = N/A 2.700 JAN 4.600 2.800 2,400 2.800 2.300 8.300 7.200 FFR 6.400 7.000 8.300 7.700 7.300 7.100 7.400 MAR 5.700 6.400 APR 4.700 6.400 6.400 MAY 2.300 3.000 1.600 <T 2.200 3.900 3.400 JUN 7.400 6.200 7.100 6.300 7.000 6,400 6.800 JUL 6.170 6.950 6.880 6.360 6.610 AUG 7.100 6.600 7.100 6.900 5.200 4.800 SEP 4.500 7.100 5.100 4.800 2.700 OCT 5.300 4.900 2.700 2.800 3.100 2.900 5.800 5.000 2.800 NOV 3.000 3.500 2.700 <T DEC 3.000 <T 2.500 <T 2.500 <T 2.700 <T 2.600 <T

THALLIUM (UG/L ) DET'N LIMIT = .010 GUIDELINE = 13. (D4)

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

	RAW	TREATED	SITE 1		SITE 2	
		<del>-</del>	STANDING	FREE FLOW	STANDING	FREE FLOW
JAN	BDL	BDL	BDL	BDL	BDL	BDL
FEB	BDL	.130 <t< td=""><td>BDL</td><td>.060 <t< td=""><td>BDL</td><td>BDL</td></t<></td></t<>	BDL	.060 <t< td=""><td>BDL</td><td>BDL</td></t<>	BDL	BDL
MAR	BDL	.040 <t< td=""><td></td><td>•</td><td>BDL</td><td>BDL</td></t<>		•	BDL	BDL
APR	BDL	BDL	BDL	BDL	•	
MAY	.070 <t< td=""><td>.150 &lt;1</td><td>.070 <t< td=""><td>.120 <t< td=""><td>.130 <t< td=""><td></td></t<></td></t<></td></t<></td></t<>	.150 <1	.070 <t< td=""><td>.120 <t< td=""><td>.130 <t< td=""><td></td></t<></td></t<></td></t<>	.120 <t< td=""><td>.130 <t< td=""><td></td></t<></td></t<>	.130 <t< td=""><td></td></t<>	
JUN	BDL	BDL	BOL	BDL	BDL	BDL
JUL	.180 <t< td=""><td>.090 <t< td=""><td>.040 <t< td=""><td></td><td>.060 &lt;1</td><td>.060 &lt;</td></t<></td></t<></td></t<>	.090 <t< td=""><td>.040 <t< td=""><td></td><td>.060 &lt;1</td><td>.060 &lt;</td></t<></td></t<>	.040 <t< td=""><td></td><td>.060 &lt;1</td><td>.060 &lt;</td></t<>		.060 <1	.060 <
AUG	BDL	BDL	BDL	BDL	•	
SEP	BDL	BDL	BOL	.020 <t< td=""><td>BDL</td><td>.020 &lt;</td></t<>	BDL	.020 <
OCT	BDL	BDL	BDL	BDL	BDL	BDL
NOV	BDL	BDL	BDL	.030 <7	.030 <t< td=""><td>.020 &lt;</td></t<>	.020 <
DEC	BDL	BDL	BDL	BDL	BDL	BDL
RANIUM (UG/L	)		DET'N LI	MIT = .020	GUIDELINE =	20. (A2)
JAN	.290	.360	.370	.380	.380	.340
FEB	.500	.730	.760	.660	.650	.760
MAR	.530	.510			.500	.540
APR	.410	.480	.510	.500	•	•
MAY	.490	.500	.520	.580	.490	.480
JUN	.600	.590	.700	.600	.600	.740
JUL	.830	.780	.750	.710	.700	.720
AUG	.630	.570	.650	.640	•	
SEP	.290	.310	.310	.320	.360	.270
OCT	.270	.310	.360	.340	.310	.320
NOV	.260	.350	.390	.350	.340	.380
DEC	.340 <t< td=""><td>.390 <t< td=""><td>.320 &lt;</td><td>.350 <t< td=""><td>.330 &lt;1</td><td>.310 &lt;</td></t<></td></t<></td></t<>	.390 <t< td=""><td>.320 &lt;</td><td>.350 <t< td=""><td>.330 &lt;1</td><td>.310 &lt;</td></t<></td></t<>	.320 <	.350 <t< td=""><td>.330 &lt;1</td><td>.310 &lt;</td></t<>	.330 <1	.310 <
ANADIUM (UG/	L )		DET'N LI	MIT = .050	GUIDELINE =	N/A
JAN	.240 <t< td=""><td>.230 &lt;7</td><td>.250 &lt;1</td><td>.280 <t< td=""><td>.230 &lt;</td><td>.250 &lt;</td></t<></td></t<>	.230 <7	.250 <1	.280 <t< td=""><td>.230 &lt;</td><td>.250 &lt;</td></t<>	.230 <	.250 <
FEB	.400 <t< td=""><td>.390 <t< td=""><td>.410 <t< td=""><td></td><td>.340 &lt;1</td><td>.350 &lt;</td></t<></td></t<></td></t<>	.390 <t< td=""><td>.410 <t< td=""><td></td><td>.340 &lt;1</td><td>.350 &lt;</td></t<></td></t<>	.410 <t< td=""><td></td><td>.340 &lt;1</td><td>.350 &lt;</td></t<>		.340 <1	.350 <
MAR	.290 <t< td=""><td>.210 <t< td=""><td></td><td>•</td><td>.290 <t< td=""><td>.230 &lt;</td></t<></td></t<></td></t<>	.210 <t< td=""><td></td><td>•</td><td>.290 <t< td=""><td>.230 &lt;</td></t<></td></t<>		•	.290 <t< td=""><td>.230 &lt;</td></t<>	.230 <
APR	.240 <t< td=""><td>.250 <t< td=""><td>.260 &lt;</td><td></td><td></td><td></td></t<></td></t<>	.250 <t< td=""><td>.260 &lt;</td><td></td><td></td><td></td></t<>	.260 <			
HAY	.360 <t< td=""><td>.350 <t< td=""><td>.380 <t< td=""><td>.360 &lt;1</td><td>.380 <t< td=""><td>.360 &lt;</td></t<></td></t<></td></t<></td></t<>	.350 <t< td=""><td>.380 <t< td=""><td>.360 &lt;1</td><td>.380 <t< td=""><td>.360 &lt;</td></t<></td></t<></td></t<>	.380 <t< td=""><td>.360 &lt;1</td><td>.380 <t< td=""><td>.360 &lt;</td></t<></td></t<>	.360 <1	.380 <t< td=""><td>.360 &lt;</td></t<>	.360 <
JUN	.320 <t< td=""><td>.270 <t< td=""><td>.360 &lt;1</td><td>.300 <t< td=""><td>.360 &lt;1</td><td>.270 &lt;</td></t<></td></t<></td></t<>	.270 <t< td=""><td>.360 &lt;1</td><td>.300 <t< td=""><td>.360 &lt;1</td><td>.270 &lt;</td></t<></td></t<>	.360 <1	.300 <t< td=""><td>.360 &lt;1</td><td>.270 &lt;</td></t<>	.360 <1	.270 <
JUL	.380 <t< td=""><td>.420 <t< td=""><td>.420 &lt;1</td><td></td><td>.360 &lt;1</td><td></td></t<></td></t<>	.420 <t< td=""><td>.420 &lt;1</td><td></td><td>.360 &lt;1</td><td></td></t<>	.420 <1		.360 <1	
AUG	.330 <t< td=""><td>.370 <t< td=""><td>.450 <t< td=""><td></td><td></td><td></td></t<></td></t<></td></t<>	.370 <t< td=""><td>.450 <t< td=""><td></td><td></td><td></td></t<></td></t<>	.450 <t< td=""><td></td><td></td><td></td></t<>			
SEP	.260 <t< td=""><td>.330 <t< td=""><td>.310 &lt;</td><td></td><td>.320 &lt;1</td><td></td></t<></td></t<>	.330 <t< td=""><td>.310 &lt;</td><td></td><td>.320 &lt;1</td><td></td></t<>	.310 <		.320 <1	
ОСТ	.240 <t< td=""><td>.250 <t< td=""><td>.250 <t< td=""><td></td><td>.220 &lt;1</td><td></td></t<></td></t<></td></t<>	.250 <t< td=""><td>.250 <t< td=""><td></td><td>.220 &lt;1</td><td></td></t<></td></t<>	.250 <t< td=""><td></td><td>.220 &lt;1</td><td></td></t<>		.220 <1	
NOV	.230 <t< td=""><td>.240 <t< td=""><td>.290 <t< td=""><td></td><td>.290 &lt;1</td><td></td></t<></td></t<></td></t<>	.240 <t< td=""><td>.290 <t< td=""><td></td><td>.290 &lt;1</td><td></td></t<></td></t<>	.290 <t< td=""><td></td><td>.290 &lt;1</td><td></td></t<>		.290 <1	
DEC	.350 <7	.310 <t< td=""><td>.400 &lt;1</td><td></td><td>.260 &lt;1</td><td></td></t<>	.400 <1		.260 <1	
INC (UG/L	)		DET'N LI	MIT = .001	GUIDELINE =	5000. (A3)
JAN	1.900	2.900	24.000	2.400	4.900	3.000
FEB	1.800	3.400	3.200	40.000	14.000	2.700
MAR	2.300	3.500			5.500	2.800
APR	1.800	2.700	26.000	2.400		
AFK						

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
JUN	3.800	3.000	26.000	4.100	10.000	3.200
JUL	3.170	2.990	31.350	3.320	10.740	3.420
AUG	2.700	2.600	37.000	3.700		•
SEP	1.900	2.600	36.000	2.300	6.900	1.700
OCT	1.900	1.700	31.000	6.000	4.800	1.700
NOV	2.300	2.200	25.000	2.400	7.800	2.700
DEC	2,400	1.700 <t< td=""><td>32 000</td><td>2 400</td><td>7 600</td><td>1 700 <t< td=""></t<></td></t<>	32 000	2 400	7 600	1 700 <t< td=""></t<>

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

	RAW		TREATED		SITE 1			SITE 2			
					STANDING	FREE FLOW		STANDING	FREE	FLOW	
	P	ESTIC	IDES & PCB								
ALPHA BHC	(NG/L	)			DET'N LII	4IT = 1.000		GUIDELINE =	700 (G)		
JAN	BDL		2.000	<t< td=""><td></td><td>BDL</td><td></td><td>•</td><td></td><td>BDL</td><td></td></t<>		BDL		•		BDL	
FEB	1.000	<t< td=""><td>1.000</td><td>&lt;1</td><td>•</td><td>BDL</td><td></td><td>•</td><td></td><td>BDL</td><td></td></t<>	1.000	<1	•	BDL		•		BDL	
MAR	2.000	<t< td=""><td>2.000</td><td><b>&lt;</b>T</td><td>•</td><td></td><td></td><td>•</td><td></td><td>BDL</td><td></td></t<>	2.000	<b>&lt;</b> T	•			•		BDL	
APR	BDL		1.000	<t< td=""><td>•</td><td>1.000</td><td><t< td=""><td>•</td><td></td><td></td><td></td></t<></td></t<>	•	1.000	<t< td=""><td>•</td><td></td><td></td><td></td></t<>	•			
MAY	2.000	<1	2.000	<1		BDL		•		1.000	<1
JUN	BDL		BDL		•	BDL		•		BDL	
JUL	2.000	<t< td=""><td>2.000</td><td><t< td=""><td></td><td>1.000</td><td><t< td=""><td></td><td></td><td>1.000</td><td>&lt;1</td></t<></td></t<></td></t<>	2.000	<t< td=""><td></td><td>1.000</td><td><t< td=""><td></td><td></td><td>1.000</td><td>&lt;1</td></t<></td></t<>		1.000	<t< td=""><td></td><td></td><td>1.000</td><td>&lt;1</td></t<>			1.000	<1
AUG	2.000	<1	2.000	<t< td=""><td>•</td><td>3.000</td><td><t< td=""><td></td><td></td><td>•</td><td></td></t<></td></t<>	•	3.000	<t< td=""><td></td><td></td><td>•</td><td></td></t<>			•	
SEP	BDL		1.000	<t< td=""><td>•</td><td>BDL</td><td></td><td></td><td></td><td>1.000</td><td>&lt;1</td></t<>	•	BDL				1.000	<1
OCT	1.000	<t< td=""><td>1.000</td><td>&lt;1</td><td>•</td><td>1.000</td><td><b>&lt;</b>T</td><td></td><td></td><td>1.000</td><td><b>&lt;</b>T</td></t<>	1.000	<1	•	1.000	<b>&lt;</b> T			1.000	<b>&lt;</b> T
NOV	1.000	<t< td=""><td>2.000</td><td>&lt;1</td><td></td><td>2.000</td><td><t< td=""><td></td><td></td><td>2.000</td><td><t< td=""></t<></td></t<></td></t<>	2.000	<1		2.000	<t< td=""><td></td><td></td><td>2.000</td><td><t< td=""></t<></td></t<>			2.000	<t< td=""></t<>
DEC	BDL		BDL		•	BOL		•		1.000	<t< td=""></t<>

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	PHENOLIC	s				
PHENOLICS	(UG/L )		DET'N L	IMIT = 0.2	GUIDELINE = 3	2.00 (A3)
JAN	1.600	1.800	•	•	•	
FEB	1.200	1.200	•	•	•	•
MAR	1.200	1.000	•	•		•
APR	.800 <t< td=""><td>1.000 <t< td=""><td></td><td></td><td>•</td><td>•</td></t<></td></t<>	1.000 <t< td=""><td></td><td></td><td>•</td><td>•</td></t<>			•	•
MAY	1.400	1.000 <t< td=""><td>•</td><td></td><td>•</td><td>•</td></t<>	•		•	•
JUN	.600 <t< td=""><td>1.000 <t< td=""><td>•</td><td>•</td><td>•</td><td></td></t<></td></t<>	1.000 <t< td=""><td>•</td><td>•</td><td>•</td><td></td></t<>	•	•	•	
JUL	.800 <t< td=""><td>1.000</td><td>•</td><td>•</td><td>•</td><td>•</td></t<>	1.000	•	•	•	•
AUG	1.200	1.600			•	•
SEP	1.800	2.600		•	•	•
OCT	.600 <t< td=""><td>2.200</td><td>•</td><td>•</td><td>•</td><td></td></t<>	2.200	•	•	•	
NOV	.600 <t< td=""><td>1.000</td><td></td><td></td><td>•</td><td>•</td></t<>	1.000			•	•
DEC	BDL	.600 <t< td=""><td></td><td></td><td>•</td><td>•</td></t<>			•	•

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	VOLATILE	ES				
TOLUENE (UG/L	)		DET'N L	IMIT = .050	GUIDELINE =	24.0 (B4)
JAN	BDL	.050 <t< td=""><td></td><td>.050 &lt;7</td><td>•</td><td>BDL</td></t<>		.050 <7	•	BDL
FEB	BOL	BDL	•	BDL	•	BDL
MAR	BDL	.050 <t< td=""><td>•</td><td>•</td><td>•</td><td>.100 &lt;</td></t<>	•	•	•	.100 <
APR	.150 <t< td=""><td>.150 <t< td=""><td>•</td><td>.100 &lt;7</td><td>•</td><td>•</td></t<></td></t<>	.150 <t< td=""><td>•</td><td>.100 &lt;7</td><td>•</td><td>•</td></t<>	•	.100 <7	•	•
MAY	BOL	.100 <t< td=""><td>•</td><td>BOL</td><td>•</td><td>BDL</td></t<>	•	BOL	•	BDL
JUN	BDL	BDL	•	BDL	•	BDL
JUL	.150 <t< td=""><td>.150 <t< td=""><td>•</td><td>BDL</td><td>•</td><td>BDL</td></t<></td></t<>	.150 <t< td=""><td>•</td><td>BDL</td><td>•</td><td>BDL</td></t<>	•	BDL	•	BDL
AUG	BDL	BDL	•	BDL	•	•
SEP	BDL	.150 <t< td=""><td>•</td><td>BDL</td><td>•</td><td>!U</td></t<>	•	BDL	•	!U
OCT	BDL	BDL		BDL	•	BDL
NOV	BOL	BDL		BDL	•	BDL
DEC	BDL	BDL	•	BOL	•	BDL
THYLBENZENE (	UG/L )		DET'N L	IMIT = .050	GUIDELINE =	2.4 (B4)
JAN	BDL	.100 <t< td=""><td></td><td>.050 <t< td=""><td></td><td>BDL</td></t<></td></t<>		.050 <t< td=""><td></td><td>BDL</td></t<>		BDL
FEB	.100 <t< td=""><td>BDL</td><td></td><td>.050 <t< td=""><td></td><td>BDL</td></t<></td></t<>	BDL		.050 <t< td=""><td></td><td>BDL</td></t<>		BDL
MAR	BDL	.100 <t< td=""><td></td><td>•</td><td></td><td>.050 &lt;</td></t<>		•		.050 <
APR	.100 <t< td=""><td>.150 <t< td=""><td>·</td><td>.150 <t< td=""><td></td><td>•</td></t<></td></t<></td></t<>	.150 <t< td=""><td>·</td><td>.150 <t< td=""><td></td><td>•</td></t<></td></t<>	·	.150 <t< td=""><td></td><td>•</td></t<>		•
HAY	BDL	.150 <t< td=""><td></td><td>.050 <t< td=""><td></td><td>BDL</td></t<></td></t<>		.050 <t< td=""><td></td><td>BDL</td></t<>		BDL
JUN	.050 <t< td=""><td>BDL</td><td></td><td>BDL</td><td></td><td>BDL</td></t<>	BDL		BDL		BDL
JUL	.050 <t< td=""><td>.050 <t< td=""><td></td><td>BDL</td><td></td><td>BDL</td></t<></td></t<>	.050 <t< td=""><td></td><td>BDL</td><td></td><td>BDL</td></t<>		BDL		BDL
AUG	BDL	BDL		BDL	•	
SEP	BOL	BDL		BDL		10
OCT	BDL	BDL	•	BDL	•	BDL
NOV	.050 <t< td=""><td>BDL</td><td>•</td><td>BDL</td><td>•</td><td>BDL</td></t<>	BDL	•	BDL	•	BDL
DEC	BDL	BDL	•	BDL	•	BDL
-XYLENE (UG/L	. )		DET'N L	IMIT = .100	GUIDELINE =	300 (B4)
JAN	BDL	.100 <t< td=""><td></td><td>BDI</td><td></td><td>BDL</td></t<>		BDI		BDL
FEB	BDL	BDL	•	BDL BDL	•	BOL
MAR	BDL	BDL	•		•	BOL
APR	.200 <t< td=""><td>BDL</td><td>•</td><td>BUI.</td><td>•</td><td>BUL</td></t<>	BDL	•	BUI.	•	BUL
MAY			•	BDL	•	BDL
JUN	BDL BDL	BDL BDL	•	BDL	•	BOL
			•	BOL	•	
JUL	BDL	.100 <t< td=""><td>•</td><td>BDL</td><td>•</td><td>BDL</td></t<>	•	BDL	•	BDL
AUG	BDL BDL	BDL	•	BDL	•	•
SEP	BDL	BDL	•	BDL	•	!U
OCT	BDL	BDL	•	BDL	•	BDL
NOV DEC	BDL BDL	BD L	•	BDL BDL	•	BDL BDL
-XYLENE (UG/L			DET'N L	IMIT = .050	GUIDELINE =	
IAN	PDI	0E0 -T		PDI		PD!
JAN Eed	BDL 050 <7	.050 <t< td=""><td>-</td><td>BDL 050 eX</td><td>•</td><td>BDL</td></t<>	-	BDL 050 eX	•	BDL
FEB	.050 <t< td=""><td>BDL</td><td>•</td><td>.050 <t< td=""><td>•</td><td>BDL</td></t<></td></t<>	BDL	•	.050 <t< td=""><td>•</td><td>BDL</td></t<>	•	BDL
MAR	BDL	BDL	•	•	•	BDL

TABLE 5 DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	BOL	BOL		BOL		
MAY	BOL	BOL	•	BDL		BOL
JUN	BDL	BOL	•	BOL		BOL
JUL	BOL	BOL	•	BOL		BOL
AUG	BOL	BOL		BOL	•	
SEP	BDL	BOL	•	BOL	•	!U
OCT	BDL	BDL		BOL		BOL
NOV	BDL	BDL		BOL		BDL
DEC	BOL	BOL	•	BOL	•	BOL
TYRENE (L	JG/L )		DET'N LI	MIT = .050	GUIDELINE = 4	6.5 (D2)
JAN	BDL	.400 <t< td=""><td></td><td>.100 &lt;7</td><td>•</td><td>BOL</td></t<>		.100 <7	•	BOL
FEB	.050 <t< td=""><td>.350 <t< td=""><td>•</td><td>.350 <t< td=""><td>•</td><td>.200</td></t<></td></t<></td></t<>	.350 <t< td=""><td>•</td><td>.350 <t< td=""><td>•</td><td>.200</td></t<></td></t<>	•	.350 <t< td=""><td>•</td><td>.200</td></t<>	•	.200
MAR	BOL	.350 <t< td=""><td>•</td><td>(=•)</td><td>•</td><td>.300 -</td></t<>	•	(=•)	•	.300 -
APR	.750	.400 <t< td=""><td>•</td><td>.400 &lt;₹</td><td>•</td><td>•</td></t<>	•	.400 <₹	•	•
MAY	.100 <t< td=""><td>.500 UCS</td><td>•</td><td>.150 <t< td=""><td>•</td><td>.050</td></t<></td></t<>	.500 UCS	•	.150 <t< td=""><td>•</td><td>.050</td></t<>	•	.050
JUN	.200 <t< td=""><td>.050 &lt;7</td><td>•</td><td>.100 <t< td=""><td>•</td><td>.050</td></t<></td></t<>	.050 <7	•	.100 <t< td=""><td>•</td><td>.050</td></t<>	•	.050
JUL	.300 <t< td=""><td>.200 <t< td=""><td>•</td><td>.100 <t< td=""><td>•</td><td>.050</td></t<></td></t<></td></t<>	.200 <t< td=""><td>•</td><td>.100 <t< td=""><td>•</td><td>.050</td></t<></td></t<>	•	.100 <t< td=""><td>•</td><td>.050</td></t<>	•	.050
AUG	.100 <t< td=""><td>BDL</td><td>•</td><td>BDL</td><td>•</td><td>•</td></t<>	BDL	•	BDL	•	•
SEP	BDL	BDL	•	BDL	•	IU
OCT	BDL 750 -7	.050 <t< td=""><td>•</td><td>80L</td><td>•</td><td>80L .050 ·</td></t<>	•	80L	•	80L .050 ·
NOV	.350 <t BDL</t 	.100 <t .050 <t< td=""><td>•</td><td>.100 <t .050 <t< td=""><td>•</td><td>BDL</td></t<></t </td></t<></t 	•	.100 <t .050 <t< td=""><td>•</td><td>BDL</td></t<></t 	•	BDL
				MIT = .100	GUIDELINE = 3	
III CARO, ORI	, (00,2 )		0E. R E.	7111 - 1100	33.522.112	
JAN	BOL	6.100	•	6.000	•	5.800
FEB	BDL	6.100	•	6.000	•	6.200
MAR	.200 <t< td=""><td>4.800</td><td>•</td><td></td><td>•</td><td>4.800</td></t<>	4.800	•		•	4.800
APR	.200 <t< td=""><td>7.600</td><td>•</td><td>8.300</td><td>•</td><td></td></t<>	7.600	•	8.300	•	
MAY	.300 <t< td=""><td>7.200</td><td>•</td><td>7.900</td><td>•</td><td>8.200</td></t<>	7.200	•	7.900	•	8.200
JUN	BDL	5.600	•	6.300	•	5.800
JUL	BDL	6.200	•	6.100	•	5.700
AUG	2.400	10.100	•	11.300	•	•
SEP	BDL	10.000	•	10.400	•	1U 7 200
OCT	BDL	7.300	•	7.500 5.100	•	7.200 5.300
NOV DEC	BDL .200 <t< td=""><td>5.300 6.500</td><td></td><td>6.400</td><td>•</td><td>6.000</td></t<>	5.300 6.500		6.400	•	6.000
11, TRIC	HLOROETHANE (UG)	/L )	DET'N LI	MIT = .020	GUIDELINE = 2	00 (D1)
JAN	BOL	BDL	_	BOL	_	BOL
FEB	BDL	BOL	•	.020 <t< td=""><td>•</td><td>BDL</td></t<>	•	BDL
MAR	BDL	BOL	•		•	BDL
	.120 <t< td=""><td>BOL</td><td>•</td><td>BOL</td><td>•</td><td>•</td></t<>	BOL	•	BOL	•	•
APR		-	-			BOL
APR MAY	.020 <t< td=""><td>.020 <t< td=""><td>•</td><td>.020 <t< td=""><td>•</td><td>BUL</td></t<></td></t<></td></t<>	.020 <t< td=""><td>•</td><td>.020 <t< td=""><td>•</td><td>BUL</td></t<></td></t<>	•	.020 <t< td=""><td>•</td><td>BUL</td></t<>	•	BUL
		.020 <t BDL</t 		.020 <f BDL</f 	•	BOL
MAY	.020 <t< td=""><td></td><td>•</td><td></td><td>•</td><td></td></t<>		•		•	

TABLE 5 DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989 DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SEP	BDL	BDL		BDL		١U
OCT	BDL	BDL		BDL	•	BDL
NOV	BDL	BDL		BDL		BDL
DEC	BDL	BDL		.020 <t< td=""><td></td><td>BDL</td></t<>		BDL
CARBON	TETRACHLORIDE (UG/L	)	DET'N	LIMIT = .200	GUIOELINE =	5.0 (D1)
JAN	BDL	.800 <t< td=""><td>•</td><td>.600 <t< td=""><td>•</td><td>.600 &lt;7</td></t<></td></t<>	•	.600 <t< td=""><td>•</td><td>.600 &lt;7</td></t<>	•	.600 <7
FEB	BDL	BDL	•	BDL	•	BDL
MAR	BDL	BDL		•	•	BDL
APR	BDL	.400 <t< td=""><td></td><td>.400 <t< td=""><td>•</td><td>•</td></t<></td></t<>		.400 <t< td=""><td>•</td><td>•</td></t<>	•	•
MAY	BDL	BDL	•	BDL	•	BDL
JUN	BDL	BDL		BDL	•	BDL
JUL	BDL	BDL		BDL	•	BDL
AUG	BDL	BDL		BDL	•	•
SEP	BDL	BDL		BDL	•	ĮU
OCT	BDL	BDL		BDL	•	BDL
NOV	BDL	BDL		BDL	•	BDL
DEC	BDL	BDL	•	BDL	•	BDL
CHLOR	OBROMOMETHANE (UG/L	. )	DET'N	LIMIT = .050	GUIDELINE =	350 (A1+)
JAN	BDL	6.150		6.500		6.400
FEB	BDL	6.300	•	6.200		6.500
MAR	.100 <t< td=""><td>5.150</td><td>•</td><td></td><td></td><td>5.250</td></t<>	5.150	•			5.250
APR	.150 <t< td=""><td>6.200</td><td>•</td><td>6.500</td><td></td><td>•</td></t<>	6.200	•	6.500		•
MAY	BDL	6.100	•	6.600		7.100
JUN	BDL	5.500	•	6.000		5.800
JUL	BDL	5.550	•	5.650		5.400
AUG	2.000	8.250	•	8.650	•	•
SEP	2.000 BDL	7.600	•	7.800	•	!U
OCT	BDL	6.150	•	6.850	•	6.500
			•	5.650	•	5.900
NOV	BDL 100 ex	5.700 6.650	•	6. <i>7</i> 50	•	6.500
DEC	.100 <t< td=""><td>0.000</td><td>•</td><td></td><td>· ·</td><td></td></t<>	0.000	•		· ·	
CHLOROD	IBROMOMETHANE (UG/L	. )	DET'N	LIMIT = .100	GUIDELINE =	: 350 (A1+)
JAN	BDL	3.800	•	4.300		4.100
FEB	BDL	3.700		3.800	•	4.000
MAR	BDL	3.200		•	•	3.300
APR	BDL	3.500	•	3.500	•	
MAY	BDL	3.900		4.200		4.300
JUN	BDL	3.200		3.800		3.600
JUL	BDL	3.100	•	3.100		3.300
	1.200	4.200		4.700	•	•
AUG			•			ĮU
AUG SEP		4.400	_	4.700		10
SEP	BDL	4.400 4.400	•	4.700 4.400	•	
		4.400 4.400 3.600	•	4.700 4.400 3.700	•	5.500 4.000

TABLE 5

## DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
-CHLOROETH	YLENE (UG/L	)	DET'N L	IMIT = .050	GUIDELINE =	10.0 (C2)
JAN	BDL	BDL	•	BDL		BOL
FEB	8DL	BDL		BDL		80L
MAR	80L	BDL			•	BDL
APR	BOL	BDL		BDL		•
MAY	BDL	BOL		BDL		BDL
JUN	BDL	BDL		BDL		BDL
JUL	80L	.100 <t< td=""><td></td><td>.050</td><td>&lt;ī .</td><td>BDL</td></t<>		.050	<ī .	BDL
AUG	BDL	80L	_	8DL		
SEP	8DL	8DL	_	8DL		10
OCT	8DL	BDL	-	BDL.		80L
NOV	BDL	BDL		BDL		80L
DEC	8DL	80L	•	BDL		80L
	• • • • • • • • • • • • • • • • • • • •		NETIN I		GUIDELINE =	350 (41+)
BROMOFORM (	OG/L )		DELTAL	IAII200	GOIDELINE -	330 (A11)
JAN	80L	.600 <t< td=""><td></td><td>.600</td><td>&lt;1 .</td><td>.600 <t< td=""></t<></td></t<>		.600	<1 .	.600 <t< td=""></t<>
FEB	BDL	.400 <t< td=""><td></td><td>.600</td><td><t .<="" td=""><td>.600 &lt;7</td></t></td></t<>		.600	<t .<="" td=""><td>.600 &lt;7</td></t>	.600 <7
MAR	BDL	.600 <t< td=""><td></td><td></td><td>•</td><td>.600 <t< td=""></t<></td></t<>			•	.600 <t< td=""></t<>
APR	BDL	.600 <t< td=""><td></td><td>.600</td><td><t .<="" td=""><td>•</td></t></td></t<>		.600	<t .<="" td=""><td>•</td></t>	•
MAY	BDL	.600 <t< td=""><td></td><td>.600</td><td>্ব .</td><td>.600 <t< td=""></t<></td></t<>		.600	্ব .	.600 <t< td=""></t<>
JUN	BDL	.400 <t< td=""><td></td><td>.600</td><td>∢⊺ .</td><td>.400 <t< td=""></t<></td></t<>		.600	∢⊺ .	.400 <t< td=""></t<>
JUL	BDL	.600 <t< td=""><td></td><td>.600</td><td></td><td>.600 <t< td=""></t<></td></t<>		.600		.600 <t< td=""></t<>
AUG	.200 <t< td=""><td>.600 <t< td=""><td></td><td>.600</td><td></td><td></td></t<></td></t<>	.600 <t< td=""><td></td><td>.600</td><td></td><td></td></t<>		.600		
SEP	BDL	.600 <t< td=""><td></td><td>.600</td><td></td><td>įυ</td></t<>		.600		įυ
OCT	BDL	.800 <t< td=""><td>•</td><td>.600</td><td></td><td>.800 <t< td=""></t<></td></t<>	•	.600		.800 <t< td=""></t<>
NOV	BDL	.600 <t< td=""><td>•</td><td>.600</td><td></td><td>.600 &lt;1</td></t<>	•	.600		.600 <1
DEC	BDL	.600 <t< td=""><td>•</td><td>.800</td><td></td><td>.600 <t< td=""></t<></td></t<>	•	.800		.600 <t< td=""></t<>
,4 DICHLOR	OBENZENE (UG/	L )	DET'N L	IMIT = .100	GUIDELINE =	: 5.0 (B1)
JAN	BOL	BDL	•	80L		<b>80</b> L
FEB	BDL	80L	•	BDL	•	<b>8</b> 0L
MAR	80L	8DL	•		•	80L
APR	BDL	BDL	•	BDL	•	•
MAY	80L	8DL	•	80 L	•	BDL
JUN	BDL	BDL		BDL	•	BDL
JUL	8DL	80L		BDL	•	BDL
AUG	80L	8DL	•	BDL	•	•
SEP	BDL	BDL	•	8DL	•	ĮŪ
ост	BDL	BDL	•	80L	•	BDL
NOV	BDL	8DL		8DL		BDL
	BDL	8DL	•	.100	<t .<="" td=""><td>BDL</td></t>	BDL
DEC	502					
• • • • • • • • • • • • • • • • • • • •	OMETHANES (UG		DET'N L	IMIT = .500	GUIDELINE =	= <b>3</b> 50 (A1)
TOTL TRIHAL	OMETHANES (UG	/L )	DET'N L		GUIDELINE =	= 350 (A1) 17.500
OTL TRIHAL	OMETHANES (UG	/L ) 17.450	DET'N L	18.000	GUIDELINE =	17.500
TOTL TRIHAL	OMETHANES (UG	/L )	DET'N L		GUIDELINE =	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1989

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

	RAW	TREATED SITE 1		SITE 2		
			STANDING	FREE FLOW	STANDING	FREE FLOW
MAY	BOL	17.800		19.300		20.200
JUN	BDL	14.700	-	16.700	•	15.600
JUL	BDL	15.450		15.450		15.000
AUG	5.800	23.150	•	25.250	•	•
SEP	BOL	22.600		23.500	•	IU
OCT	BOL	18.650		19.350	•	20.000
NOV	BOL	15.200		15.050	•	15.800
DEC	BOL	17.150	•	17.050	•	16.500

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE ANALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

Table 6

	T	ETECTIO	NT.	
SCAN/PARAMETER	UNIT	LIMIT	GUIDE	LINE
<u> </u>	31122			
BACTERIOLOGICAL				
FECAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	0	(A1)
STANDARD PLATE COUNT MEMBRANE	CT/ML	0	500/M	L(A1)
FILTRATION		_		
TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	5/100m	L(A1)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0	N/A	
CHLOROAROMATICS				
HEXACHLOROBUTADIENE	NG/L	1.000	450.	(D4)
1,2,3-TRICHLOROBENZENE	NG/L	5.000	10000	(I)
1,2,3,4-TETRACHLOROBENZENE	NG/L	1.000	10000	(I)
1,2,3,5-TETRACHLOROBENZENE	NG/L	1.000	10000	(I)
1,2,4-TRICHLOROBENZENE	NG/L	5.000	10000	(I)
1,2,4,5-TETRACHLOROBENZENE	NG/L		38000	(D4)
1,3,5-TRICHLOROBENZENE	NG/L	5.000	10000	(D4)
HEXACHLOROBENZENE	NG/L	1.0	10.	(C1)
HEXACHLOROETHANE	NG/L		1900.	(D4)
OCTACHLOROSTYRENE	NG/L	1.000	•	
PENTACHLOROBENZENE	NG/L		74000	(D4)
2,3,6-TRICHLOROTOLUENE	NG/L	5.000	•	
2,4,5-TRICHLOROTOLUENE 2,6,A-TRICHLOROTOLUENE	NG/L	5.000	•	
2,6,A-IRICHLOROIOLUENE	NG/L	5.000	N/A	
CHLOROPHENOLS				
2,3,4-TRICHLOROPHENOL	NG/L	50.	N/A	
2,3,4,5-TETRACHLOROPHENOL	NG/L	50.	N/A	
2,3,5,6-TETRACHLOROPHENOL	NG/L	50.	N/A	
2,4,5-TRICHLOROPHENOL	NG/L	50. 2	600000	(D4)
2,4,6-TRICHLOROPHENOL	NG/L	50.	2000.	(B4)
PENTACHLOROPHENOL	NG/L	50.	30000.	(B4)
CHEMISTRY (FLD)				
FIELD COMBINED CHLORINE RESIDUAL	MG/L	N/A	N/A	
FIELD FREE CHLORINE RESIDUAL	MG/L MG/L	N/A	N/A	
FIELD TOTAL CHLORINE RESIDUAL	MG/L	N/A	N/A	
FIELD PH	DMSNLESS	N/A	6.5-8.	5 (A4)
FIELD TEMPERATURE	°C	N/A	<15 °C	
FIELD TURBIDITY	FTU	N/A		(A1)
CHEMISTRY (LAB)				
AT VAL TALTOV	V0 /=		20 ==	0.45.41
ALKALINITY CALCIUM	MG/L	.200		
CYANIDE	MG/L	.100		
CHLORIDE	MG/L MG/L	.001	250.	0(A1)
COLOUR	MG/L TCU	.5		(A3) (A3)
CONDUCTIVITY	UMHO/CM	1.	400.	(F2)
FLUORIDE	MG/L	.01		(A1)
HARDNESS	MG/L	.50	80-10	
MAGNESIUM	MG/L	.05	30.	(F2)
	•			,

	DE	TECTION		
SCAN/PARAMETER	UNIT	LIMIT	GUIDE	LINE
NITRITE	MG/L	.001	1.0	(A1)
TOTAL NITRATES	MG/L	.02	10.	(A1)
NITROGEN TOTAL KJELDAHL	MG/L	.02	N/A	
PH	DMSNLESS	N/A	6.5-8.	5(A4)
PHOSPHORUS FIL REACT	MG/L	.000	5 N/A	
PHOSPHORUS TOTAL	MG/L	.002	. 4	O(F2)
TOTAL SOLIDS	MG/L	1.	500.	(A3)
TURBIDITY	FTU	.02	1.0	(A1)
METALS				
ALUMINUM	UG/L	.050	100.	(A4)
ANTIMONY	UG/L	.050	10.	(F3)
ARSENIC	UG/L	.050	50.	(A1)
BARIUM	UG/L	.020	1000.	(A1)
BORON	UG/L	.200	5000.	(A1)
BERYLLIUM	UG/L	.010	0.2	O (H)
CADMIUM	UG/L	.050		(A1)
COBALT	UG/L	.020	1000.	(H)
CHROMIUM	UG/L	.100	50.	(A1)
COPPER	UG/L	.100	1000.	(A3)
IRON	UG/L	5.0	300.	(A3)
MERCURY	UG/L	.01	1.0	(A1)
MANGANESE	UG/L	.050	50.	(A3)
MOLYBDENUM	UG/L	.020	500.	(H)
NICKEL	UG/L	.100	50.	(F3)
LEAD	UG/L	.020	50.	(A1)
SELENIUM	UG/L	.200	10.	(A1)
SILVER	UG/L	.020		(A1)
STRONTIUM	UG/L	.100	2000.	(H)
THALLIUM	UG/L	.010		(D4)
TITANIUM	UG/L	.100	•	
URANIUM	UG/L	.020		(A2)
VANADIUM	UG/L	.020		(H)
ZINC	UG/L	.020	5000.	(A3)
PHENOLICS				
PHENOLICS (UNFILTERED REACTIVE)	UG/L	. 2	2.0	(EA)
PESTICIDES & PCB				
ALDRIN	NG/L	1.0	700.	(A1)
AMETRINE	NG/L	50.	300000.	(D3)
ATRAZINE	NG/L	50.	60000.	(B3)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	700.	(G)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	300.	(G)
GAMMA HEXACHLOROCYCLOHEXANE (LINDANE)	NG/L	1.0	4000.	(A1)
ALPHA CHLORDANE	NG/L	2.0	7000.	(A1)
GAMMA CHLORDANE	NG/L	2.0	7000.	(A1)
BLADEX	NG/L	100.	10000.	(B3)
DIELDRIN	NG/L	2.0	700.	(A1)
METHOXYCHLOR	NG/L	5.0 9	900000.	(B1)
ENDOSULFAN 1 (THIODAN I)	NG/L	2.0	74000.	(D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	4.0	74000.	(D4)
ENDRIN	NG/L	4.0		(A1)
ENDOSULFAN SULPHATE (THIODAN SULPHATE		4.0		
HEPTACHLOR EPOXIDE	NG/L	1.0	3000.	(A1)

		D	ΕT	Έ	CT	1	O)	١

	D	ETECTION		
SCAN/PARAMETER	UNIT	LIMIT	GUIDI	ELINE
HEPTACHLOR	NG/L	1.0	3000.	(A1)
METOLACHLOR	NG/L	500.	50000.	(B3)
MIREX	NG/L	5.0	N/A	
OXYCHLORDANE	NG/L	2.0	N/A	
O,P-DDT	NG/L	5.0	30000.	(A1)
PCB	NG/L	20.0	3000.	(A2)
O,P-DDD	NG/L	5.0	N/A	
PPDDE	NG/L	1.0	30000.	(A1)
PPDDT	NG/L	5.0	30000.	(A1)
ATRATONE	NG/L	50.	N/A	
ALACHLOR	NG/L	500.	35000.	(D2)
PROMETONE	NG/L	50.	52500.	(D3)
PROPAZINE	NG/L	50.	16000.	(D2)
PROMETRYNE	NG/L	50.	1000.	(B3)
SENCOR (METRIBUZIN)	NG/L	100.	80000.	(B2)
SIMAZINE	NG/L	50.	10000.	(B3)
	·			•
POLYAROMATIC HYDROCARBONS				
PHENANTHRENE	NG/L	10.0	N/A	
ANTHRACENE	NG/L	1.0	N/A	
FLUORANTHENE	NG/L	20.0	42000.	(D4)
PYRENE	•	20.0	N/A	` '
BENZO (A) ANTHRACENE	NG/L	20.0	N/A	
CHRYSENE	NG/L	50.0	N/A	
DIMETHYL BENZO(A)ANTHRACENE	NG/L	5.0	N/A	
BENZO (E) PYRENE	NG/L	50.0	N/A	
BENZO(B) FLUORANTHENE	NG/L	10.0	N/A	
PERYLENE	NG/L	10.0	N/A	
BENZO(K) FLUORANTHENE	NG/L	1.0	N/A	
BENZO(A) PYRENE	NG/L	5.0	10.	(B1)
BENZO(G, H, I) PERYLENE	NG/L	20.0	N/A	(22)
DIBENZO(A, H) ANTHRACENE	NG/L	10.0	N/A	
INDENO(1,2,3-C,D)PYRENE	NG/L	20.0	N/A	
BENZO(B)CHRYSENE	NG/L	2.0	N/A	
CORONENE	NG/L	10.0	· ·	
	110/15	10.0	И/А	
SPECIFIC PESTICIDES				
TOXAPHENE	NG/L	N/A	5000.	(A1)
2,4,5-TRICHLOROBUTYRIC ACID	NG/L	•	200000.	
(2,4,5-T)	110/11	50.	200000.	(54)
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.	100000.	(A1)
2,4-DICHLORORPHENOXYBUTYRIC ACID	NG/L			•
2,4-D PROPIONIC ACID	NG/L			(63)
DICAMBA	NG/L NG/L		N/A	/D1\
PICLORAM	·='		120000.	
SILVEX (2,4,5-TP)	NG/L		190000.	
DIAZINON	NG/L			
DICHLOROVOS	NG/L		20000.	(B1)
	NG/L		N/A	
DURSBAN ETHION	NG/L		N/A	
	NG/L			
GUTHION (AZINPHOSMETHYL)	NG/L		20000.	
MALATHION	NG/L		190000.	(B1)
METHYL DARAGULON	NG/L		N/A	
METHYL PARATHION	NG/L			(A1)
METHYLTRITHION	NG/L		N/A	
PARATHION	NG/L	20.	50000.	(B1)

	DE	TECTION		
			GUIDEL	TNE
SCAN/PARAMETER	<u>UNIT</u>	<u>LIMIT</u>	GOIDEL	11115
PHORATE (THIMET)	NG/L	20.	2000.	(B3)
RELDAN	NG/L	20.	N/A	
RONNEL	NG/L	20.	N/A	
AMINOCARB	NG/L	N/A	N/A	
BENONYL	NG/L	N/A	N/A	
BUX (METALKAMATE)	NG/L	2000.	N/A	
CARBOFURAN	NG/L	2000.	90000.	(B1)
CICP (CHLORPROPHAM)	NG/L	2000.	350000.	(G)
DIALLATE	NG/L	2000.	30000.	(H)
EPTAM	NG/L	2000.	N/A	
IPC	NG/L	2000.	N/A	
PROPOXUR (BAYGON)	NG/L	2000.	90000.	(G)
SEVIN (CARBARYL)	NG/L	200.	90000.	(B1)
SUTAN (BUTYLATE)	NG/L	2000.	245000.	(D3)
5011II. (5011III.)				
VOLATILES				
				(D1)
BENZENE	UG/L			(B1)
TOLUENE	UG/L		50 24.0	•
ETHYLBENZENE	UG/L			(B4)
PARA-XYLENE	UG/L		00 300.	
META-XYLENE	UG/L			(B4)
ORTHO-XYLENE	UG/L		50 300.	-
1,1-DICHLOROETHYLENE	UG/L			(D1)
ETHLYENE DIBROMIDE	UG/L			5 G)
METHYLENE CHLORIDE	UG/L		00 50.	
TRANS-1,2-DICHLOROETHYLENE	UG/L	. 1	00 70. 00 N/A	(D5)
1,1-DICHLOROETHANE	UG/L			/ <b>7.1</b> ± 1
CHLOROFORM	UG/L		00 350. 20 200.	
1,1,1-TRICHLOROETHANE	UG/L			(D1)
1,2-DICHLOROETHANE	UG/L			(B1)
CARBON TETRACHLORIDE	UG/L		00 5.0 50 6.0	
1,2-DICHLOROPROPANE	UG/L			(B1)
TRICHLOROETHYLENE	UG/L			(A1+)
DICHLOROBROMOMETHANE	UG/L		_	0(D4)
1,1,2-TRICHLOROETHANE	UG/L			(A1+)
CHLORODIBROMOMETHANE	UG/L		_	(C2)
TETRACHLOROETHYLENE	UG/L			(A1+)
BROMOFORM	UG/L			7(D4)
1,1,2,2-TETRACHLOROETHANE	UG/L			(D5)
CHLOROBENZENE	UG/L			(B4)
1,4-DICHLOROBENZENE	UG/L			
1,3-DICHLOROBENZENE	UG/L		.00 130.	
1,2-DICHLOROBENZENE	UG/L	.0	3.0	(B4)

N/A

.500 350. (A1)

140. (D5)

.100

.05

UG/L

UG/L

UG/L

TRIFLUOROCHLOROTOLUENE

TOTAL TRIHALOMETHANES

STYRENE